

2003
Summer

MOVE *your career* **FORWARD**



- ▶ **The degrees that *you need***
- ▶ **The certificates that *you want***
- ▶ **The cutting-edge courses that *employers require***

CLASSES BEGIN MAY 19, 2003
UNDERGRADUATE & GRADUATE COURSES

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See our accelerated summer schedule inside.

SUMMER SESSION I – MAY 19–JUNE 27, 2003

SUMMER SESSION II – JULY 7–AUGUST 15, 2003

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University of Massachusetts Lowell
Continuing Studies, Corporate and Distance Education
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(978) 934-2480

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UMass Lowell

MOVE your career

FORWARD



CONTINUING STUDIES' EXECUTIVE TEAM:
Bottom Row: Pauline Carroll, Johanna Bohan-Riley,
Catherine Kendrick; Top Row: Jane Worthley, Amy Yacus,
Jacqueline F. Moloney, and Steven Tello

Dear Students and Prospective Business Partners:

This summer, move your career forward quickly. Choose between 6-week intensive classes or 14-week courses.

Too busy to come to class? Take a course online. UMass Lowell's undergraduate and graduate programs can accelerate your progress.

Need help with deciding what to take? Get speedy advice from our friendly counselors. Explore your fastest options for earning college credit, professional certificates, or specialized degrees.

This summer, you can become more competitive and better qualified for advancing your career. UMass Lowell can help you pursue your future with speed and confidence.

P.S. Check out our new Corporate Signature Seminar Series. See page 7.

Regards,

Jacqueline Moloney, Dean

Continuing Education Open House

Please join us for the Continuing Studies and Corporate Education Summer Sessions

Open House and General Registration on Tuesday, May 13, 2003, from 5:00 to 7:30 p.m. in Southwick Hall 223.



EARLY BIRD ADVISING

April 14 through May 9, 2003

"The advisors I spoke with from your Advising Center were friendly, conscientious, and they helped me to map out a customized education plan. They took into consideration my current areas of interest and employment, and came up with a creative mix of courses that I could take to finish my bachelor's degree. Once I had met with my advisors, I felt motivated to complete my degree with renewed enthusiasm."

— Wendy Sullivan, Degree Candidate

Call the Advising Center at (978) 934-2474 to set up an appointment with an Academic Advisor to review your program worksheets and plan for the upcoming semester.

Remember, Summer Sessions begin May 19, 2003. For a complete list of courses, visit <http://continuinged.uml.edu> or contact us at (978) 934-2474 for more information.

OPEN HOUSE & GENERAL REGISTRATION

Tuesday, May 13, 2003

5:00–7:30 pm

Southwick Hall, North Campus

Find out about:

- Evening Certificate Programs & Degrees
- Financial Aid • Online Courses

Academic Advisors will be available at UMass Lowell North Campus.* For further information, call (978) 934-2480.

*Please note: Transfer credits will not be evaluated during the Open House. Students should plan on making individual appointments with an Academic Advisor prior to the Open House.

Tuesday, May 13, 2003, 6:00–6:30 pm & 7:00–7:30 pm

New Student Orientation

Are you a new student to Continuing Studies and Corporate Education? Do you have questions about registration, tuition, applying to a degree or certificate program, etc.?

Then join us for our New Student Orientation Night!

Find out how easy it is to get answers to questions such as:

- How do I select a course and check for prerequisites?
- How do I register?
- Am I able to enroll in a degree or certificate program?
- When do I pay for my courses?
- Where is my classroom located?
- How do I take a course online?
- How do I use the electronic library?

Call the Advising Center today at (978) 934-2474 to reserve your seat!

Free Online Orientation!

Come see how **easy** it is to take a course **online!**

Want to learn more about taking courses over the Internet? Are you planning on registering for an online course this semester? This orientation will introduce you to the features of your online course and answer any questions you may have.

Join us at the session that best fits your schedule:

Session 1:

Tuesday, May 13, 5:30–6:15 pm

Session 2:

Tuesday, May 13, 6:30–7:15 pm

Call (978) 934-2474

to reserve your seat in one of these sessions!

Certificate Programs

Take advantage of your company's tuition reimbursement policy to move your career forward!

"I kept putting off going back to school until an employee representative in our Human Resources department explained our company's tuition reimbursement program. I'm now in my third semester, more than half way towards my multimedia certificate and my company has paid for the whole thing. I've already brought a lot of great ideas and techniques back to my unit so the whole company is benefiting from what I learned."



Creative Arts/Media

APPLICATIONS



Website Design & Development

In our rapidly-evolving, knowledge-based economy, workers are struggling to keep up with the latest technologies and skills. Specifically, in the area of internet technology, local companies are actively pursuing employees with knowledge and skills in website design and development. Note: Students participating in this program should have basic Mac OS and/or Windows familiarity.

Required Courses:

- 90.231 Graphics for Multimedia and the World Wide Web
- 90.238 Website Development
- 90.291 Introduction to DHTML
- 70.379 Website Design
- 70.384 Advanced Website Design and Development

Electives (Choose 2):

- 70.262 Digital Imaging and Photography
- 70.385 Streaming Media for the Web
- 78.201 Introduction to Audio for Multimedia and the WWW
- 90.230 Introduction to Multimedia
- 90.236 Instructional Design for Interactive Media
- 90.245 Website Server Administration
- 90.246 Active Server Pages
- 90.247 Advanced Web Authoring: Flash™
- 90.248 Website Database Implementation
- 90.249 Developing IT Training for the Web
- 90.250 E-Commerce on the Web
- 90.292 Advanced DHTML
- 90.301 Java Programming
- 90.302 JavaScript
- 90.305 Introduction to Perl
- 90.306 Introduction to XML



Graphic Design & Digital Imaging

This certificate program offers students interested in breaking into graphic design and electronic publishing an innovative mix of traditional design courses along with several courses in the latest publishing technologies. From traditional graphic design to designing for multimedia and the World Wide Web, students in the program complete numerous portfolio pieces geared towards the professional market.

Required Courses:

- 70.240 Fundamentals of Typography
- 70.245 Desktop Publishing: Layout and Production
- 70.262 Digital Imaging and Photography
- 70.291 Introduction to Graphic Design
- 70.391 Advanced Graphic Design
- 70.400 Portfolio Production Seminar

Electives (Choose 3):

- 70.264 Computer Graphics & Illustration
- 70.362 Advanced Digital Imaging
- 70.376 3D Computer Animation
- 70.377 Advanced Animation: After Effects®
- 70.379 Website Design
- 70.384 Advanced Website Design & Development
- 70.392 Design for Advertising
- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the World Wide Web
- 90.233 Multimedia Authoring Software: Macromedia Director®
- 90.238 Website Development

NEW!

ATTENTION MULTIMEDIA & WEB STUDENTS!

Audio for Multimedia and the World Wide Web 78.201-021

Held in one of UML's state-of-the-art Windows labs and features Sonic Foundry's Sound Forge® 6.0 software.

This new course can be counted as an elective towards the Certificate Program in Multimedia Applications and the Certificate Program in Website Design & Development. This course provides participants with the technical background in audio they will need for effective Multimedia and Web-based use of sound.

Instructor: Alex Case
When Held: Summer Session II:
July 7 - August 15, 2003
Tues/Thurs Evenings from 7-10 pm
Prerequisites: Intro. to Multimedia or HTML is recommended.
Tuition: \$660

To Register, call the Office of Enrollment Services at (978) 934-2700.



Multimedia Applications

Available On-campus or Online.

The multimedia industry promises to become one of the most lucrative industries of the century. Individuals with the skills and knowledge to communicate using the new technology will flourish in this emerging industry. The Multimedia Certificate Program at UMass Lowell is one of the largest, most comprehensive programs of study in multimedia available in New England. It draws upon the expertise of several departments, colleges, and centers within the University, as well as outside expertise from industry professionals.

You can now earn the Certificate in Multimedia Applications online! See the Continuing Education website at <http://continuinged.uml.edu/online> for more information.

Required Courses:

- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the World Wide Web
- 90.232 Desktop Video Production
- 90.233 Multimedia Authoring Software: Macromedia Director®
- 90.234 Designing and Developing Interactive Media

Electives (Choose 2):

- 42.221 Writing for Interactive Media
- 70.262 Digital Imaging and Photography
- 70.264 Computer Graphics and Illustration
- 70.291 Introduction to Graphic Design
- 70.376 3D Computer Animation
- 70.377 Advanced Animation: After Effects®
- 70.379 Website Design
- 70.384 Advanced Website Design and Development
- 70.385 Streaming Media for the Web
- 78.201 Introduction to Audio for Multimedia and the World Wide Web
- 90.236 Instructional Design for Interactive Media
- 90.238 Website Development
- 90.239 Multimedia Scripting Using Macromedia Director's Lingo™
- 90.247 Advanced Web Authoring: Flash™
- 90.249 Developing IT Training for the Web

Information

TECHNOLOGY

ACCORDING TO A RECENT ARTICLE IN THE BOSTON GLOBE, THE ROLE OF ADMINISTRATIVE PROFESSIONALS IS CHANGING REQUIRING A HIGHER LEVEL OF SKILLS.

(SOURCE: BOSTON GLOBE, APRIL 4, 2002)

CHECK OUT OUR COURSES IN:

- INTRODUCTION TO PERSONAL COMPUTERS AND MICROSOFT OFFICE (90.202)
 - APPLICATIONS SOFTWARE: ACCESS (90.171)
 - RELATIONAL DATABASE CONCEPTS (90.474)
 - EXPLORING THE INTERNET™ (91.113)
- (SEE PAGES 9-11)



Fundamentals of Information Technology

Available On-campus or Online.

The need for professionals with a strong information technology background will continue to increase as business, government, schools, and other organizations seek new applications for computers and networks in the workplace. This certificate is designed as an introductory program for those who want to explore a broad range of electives in different subject areas before deciding on an area of specialization. This program can be used as a gateway to the other, more specialized certificate programs.

You can earn the Certificate in Fundamentals of Information Technology entirely online, on campus, or by taking a combination of online and on campus courses. For more details, please see our Continuing Education website at <http://continuinged.uml.edu>.

Required Courses:

- 90.160 Introduction to Information Systems
- 90.202 Introduction to Personal Computing and Microsoft Office*

Electives (Choose 4):

Programming Electives:

- 90.211 Introduction to Programming with C, Part I
- 90.212 Introduction to Programming with C, Part II
- 90.220 Visual Basic
- 90.267 C Programming
- 90.268 C++ Programming
- 90.269 Advanced C++
- 90.270 Visual C++
- 90.364 Problem Solving with C

Database Electives:

- 90.171 Applications Software: Access
- 90.342 Web-Enabled Database Development
- 90.474 Relational Database Concepts

Multimedia/Web Electives:

- 90.230 Introduction to Multimedia
- 91.113 Exploring the Internet

Additional Electives:

- 90.311 Introduction to the UNIX Operating System
- 90.312 UNIX Shell Programming
- 90.461 LAN/WAN Technologies

*Students with spreadsheet and database experience on Macs or PCs can replace 90.202 with any of the elective courses listed above.

**Note: This is a partial list of computer elective courses. For the complete list of courses that may be applied as electives, see the Continuing Education Course Catalog for computer courses with the 90. or 92. prefix.

For more information on any of these certificate programs visit our Website at <http://continuinged.uml.edu> or call (978) 934-2470.

ACCORDING TO A RECENT ARTICLE IN THE BOSTON GLOBE,
**LINUX SOFTWARE IS GROWING IN
POPULARITY IN GOVERNMENT CIRCLES.**

(SOURCE: BOSTON GLOBE, MAY 30, 2002)

**CHECK OUT OUR ONLINE COURSES IN LINUX:
INTRODUCTION TO LINUX & LINUX SYSTEM
ADMINISTRATION AND SHELL SCRIPTING USING
LINUX, ON PAGE 10.**



Client/Server Database Design and Administration

Economic indicators, business surveys, and professional IT recruitment agencies show a major shortage of skilled IT professionals in Database Design and Administration. With every aspect of today's businesses being moved to E-Commerce to service the vast global economy, professionals skilled in database technology are in critical demand. This certificate is designed to provide a strong background in all areas of database and data-related skills: operating system platforms, database design, development, and administration. Utilizing state-of-the-art labs, hands-on skill building and projects are emphasized.

Required Courses:

Note: Students with experience equivalent to any of the required courses may substitute up to two electives for the required courses, with prior approval of the program coordinator.

- 90.443 Introduction to Client/Server Computing
- 90.450 Oracle Architecture and Administration
- 90.454 Oracle Structured Query Language (SQL)
- 90.474 Relational Database Concepts

Electives (Choose 2):

- 90.220 Visual Basic
- 90.311 Introduction to the UNIX Operating System
- 90.319 Introduction to Linux
- 90.445 SQL Database Servers
- 90.453 Advanced Oracle Administration
- 90.455 Oracle Projects
- 90.459 Oracle Procedural Language Development
- 90.479 Advanced Database Applications: PowerBuilder



UNIX®

Available On-campus or Online.

The Certificate in UNIX is designed for those currently in the computer industry who want to upgrade their skills, and for those with basic computer literacy who want to enter this fast-growing field. Students learn skills that are immediately applicable in the workplace as well as C Programming, the language in which most networking software is written. Many of the courses in the UNIX certificate program may be used to satisfy requirements in the Fundamentals of Information Technology and Data/Telecommunications Certificate Programs, as well as the A.S. or B.S. degrees in Information Systems.

You can now earn the Certificate in UNIX online! See the Continuing Education website at <http://continuinged.uml.edu/online> for more information.

Required Courses:

- 90.267 C Programming
- 90.311 Introduction to the UNIX Operating System
- 90.312 UNIX Shell Programming
- 90.360 Introduction to Data Structures

Electives (Choose 2):

- 90.268 C++ Programming
- 90.269 Advanced C++
- 90.313 UNIX Internals Overview
- 90.316 UNIX System Administration
- 90.318 Advanced UNIX Internals/Tuning
- 90.319 Introduction to Linux
- 90.321 Linux System Administration



Data/Telecommunications

Networking is a multi-billion dollar industry. The Certificate Program in Data/Telecommunications trains participants for positions as entry-level network administrators, LAN technicians, and system analysts responsible for networking functions in large or small companies. Many of the courses in this certificate program can be applied towards the A.S. or B.S. degree in Information Systems.

Required Courses:

- 90.267 C Programming
- 90.311 Introduction to the UNIX Operating System
- 90.461 LAN/WAN Technologies
- 90.462 TCP/IP and Network Architecture
- 90.463 Advanced Networking Technologies

Electives (Choose 1):

- 90.464 Network Management
- 90.483 Wireless Communications
- 90.484 Fiber Optics on the Enterprise Network



Intranet Development

Available Online.

The Certificate Program in Intranet Development provides students with an understanding of the range of skills required to develop a successful intranet. Students are required to complete an intranet survey course, a database design course, and an interface design course, as well as core programming courses. In addition, students will select two electives which support an area of focus in intranet development. Students completing the Certificate Program in Intranet Development can qualify for positions as intranet developers, database integration specialists, systems operators, systems administrators, or corporate Webmasters.

Earn the Certificate in Intranet Development online! See the Continuing Education website at <http://continuinged.uml.edu/online> for more information.

Required Courses:

- 90.340 Intro to the Application and Development of Intranets
- 90.341 Intranet Applications for the Organization
- 90.461 LAN/WAN Technologies
- 90.474 Relational Database Concepts

Electives (Choose 2):

- 90.267 C Programming
- 90.268 C++ Programming
- 90.301 JAVA Programming
- 90.305 Introduction to Perl
- 90.342 Web-Enabled Database Development
- 90.462 TCP/IP and Network Architecture
- 90.490 Intranet Practicum/Internship



Contemporary Communications

Available On-campus or Online.

The Contemporary Communications Certificate is intended as an introductory certificate to prepare students for work in a rapidly changing, information-driven workplace. Students will develop skills in research, analysis, writing, graphic presentation of material, and the use of technology as a tool for communication. This certificate program is interdisciplinary and draws upon the expertise and knowledge of several departments within the University. Many of the courses in this certificate can also be applied towards several other certificates and degrees offered by UMass Lowell.

Required Courses:

Written Communication (Choose 1):

- 42.221 Writing for Interactive Media
- 42.224 Business Writing
- 42.226 Technical and Scientific Communication

Computer-Based Communications (Choose 1):

- 90.202 Intro to PCs and MS Office
- 91.113 Exploring the Internet

Strategic Thinking and Effective Communication (Choose 1):

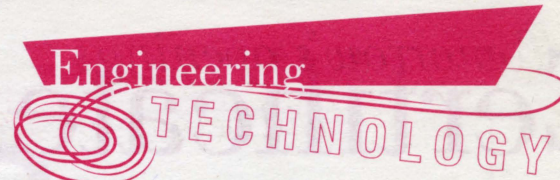
- 45.205 Argumentation and Rhetoric
- 45.207 Corporate Communications
- 62.201 Marketing Principles

Multimedia/Graphic Design and Development (Choose 1):

- 70.291 Introduction to Graphic Design
- 90.230 Introduction to Multimedia

Electives (Choose 2):

- 42.221 Writing for Interactive Media
- 42.224 Business Writing
- 42.226 Technical and Scientific Communication
- 42.300 Journalism
- 45.205 Argumentation and Rhetoric
- 45.207 Corporate Communications
- 45.356 The History, Theory, and Practice of Rhetoric
- 62.201 Marketing Principles
- 70.291 Introduction to Graphic Design
- 90.202 Intro to PCs and MS Office
- 90.230 Introduction to Multimedia
- 90.291 Intro to DHTML
- 91.113 Exploring the Internet



Computer Engineering Technology

The Certificate Program in Computer Engineering Technology is designed to provide students with a broad-based knowledge of digital electronics, microprocessors and advanced digital technologies. Students enrolled in the program must complete the seven courses listed below. The curriculum includes engineering science and design courses that provide a balanced view of hardware, software, application trade-offs and the basic modeling techniques used in computer engineering. All the courses in this certificate program can be applied towards the B.S. degree in Electronic Engineering Technology.

Required Courses:

- 17.341 Logic Design I & Laboratory
- 17.342 Logic Design II & Laboratory
- 17.353 Digital Electronics
- 17.383 Microprocessors A
- 17.384 Microprocessors B
- 90.267 C Programming
- 90.268 C++ Programming



Electronics Technology

The Certificate Program in Electronics Technology is designed to provide the students with a broad-based knowledge of circuit theory and electronics, with laboratory work included to ensure that good hands-on experience is acquired along with the deep understanding of fundamental and changing technologies. All the computer courses in this certificate program can be applied towards the A.S. or B.S. degree in Electronic Engineering Technology.

Required Courses:

- 17.213 Circuits I
- 17.214 Circuits II and Laboratory
- 17.215 Circuits III and Laboratory
- 17.216 Circuits IV
- 17.341 Logic Design I and Laboratory
- 17.355 Electronics I & Laboratory
- 17.356 Electronics II & Laboratory
- 17.357 Electronics III & Laboratory
- 17.358 Electronics IV & Laboratory



Computer-Assisted Manufacturing

As the United States focuses on the challenges of global economic competition, one of the key tools for sharpening our competitive edge is the use of the computer as an aid to engineering and manufacturing. The Certificate Program in Computer Assisted Manufacturing is designed to provide engineers, technicians, managers and those working in a manufacturing environment with an introduction to the computer as used to enhance industrial competitiveness. Students will apply various popular software packages and work with personal computers.

Required Courses:

- 23.200 Computer Aided Drafting (CADrf)
- 23.419 Computer Aided Manufacturing
- 23.480 Computer Aided Design (CADEs)
- 23.484 Intro Pro-E **OR**
- 23.485 Intro to SolidWorks

Electives (Choose 2):

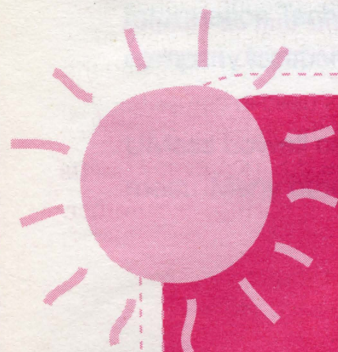
- 23.101 Engineering Graphics
- 23.102 Engineering Design and Graphics
- 23.301 Manufacturing Technology Laboratory
- 23.305 Manufacturing Processes

"THE ORACLE CLASS I TOOK AT UMASS LOWELL WAS GREAT. I JUST GOT OFFERED A JOB AS A DATABASE/APPLICATION PROGRAMMER AT A SMALL SOFTWARE COMPANY IN SALEM, NH. I AM SURE THAT I WILL BENEFIT FROM WHAT I LEARNED IN CLASS AT MY NEW JOB SINCE THEY USE THE ORACLE DATABASE SYSTEM. THANKS!"

— JENNIFER ZUO, CONTINUING STUDIES STUDENT

Tomorrow's openings will belong to *Skilled Professionals*

- UMass Lowell's certificate programs count towards numerous degree programs
- Many electives can be used to earn more than one certificate
- Multiple electives allow you to focus on specific areas of expertise
- A wide range of certificate programs are available online



"Recent articles in the Boston Globe and the Chronicle of Higher Education confirm the growing demand by adult learners for certificate programs."

Catherine A. Kendrick
Director of Corporate and Distance Market Development,
UMass Lowell, Division of Continuing, Corporate and
Distance Education

CERTIFICATE PROGRAMS

The following certificate programs are available on a part-time evening basis:

- Accounting
- Client/Server Database Design and Administration
- Community Policing
- Computer-Assisted Manufacturing
- Computer Engineering Technology
- Contemporary Communications
- Data/Telecommunications
- Electronics Technology
- Electro-Optics
- Environmental Technology
- Fundamentals of Information Technology
- Graphic Design and Digital Imaging
- Hazardous Waste Management
- Intranet Development
- Land Surveying
- Manufacturing Technology
- Multimedia Applications
- Nutrition
- Paralegal Studies
- Plastics Engineering Technology and Plastics
- Engineering Technology with Packaging Option
- Spanish
- Technical Writing
- UNIX
- Wastewater Treatment
- Water Treatment
- Website Design and Development



FINISH YOUR DEGREE ON CAMPUS, ONLINE, OR BOTH!



DEGREE PROGRAMS

The following degree programs are available on a part-time evening basis:

COLLEGE OF ENGINEERING

Associate's Degrees

- Civil Engineering Technology
- Civil Engineering Technology: Water Treatment Option
- Civil Engineering Technology: Wastewater Treatment Option
- Civil Engineering Technology: Surveying Option
- Electronic Engineering Technology
- Mechanical Engineering Technology

Bachelor's Degrees

- Civil Engineering Technology
- Civil Engineering Technology: Environmental Option
- Electronic Engineering Technology
- Mechanical Engineering Technology
- Mechanical Engineering Technology: Manufacturing Option
- Mechanical Engineering Technology: Plastics Option

COLLEGE OF ARTS AND SCIENCES

Associate's Degree

- Information Technology

Bachelor's Degrees

- Applied Mathematics
- Criminal Justice
- Criminal Justice: Paralegal Option
- Information Technology
- Information Technology: Business Minor Option
- Liberal Arts

COLLEGE OF MANAGEMENT

Associate's Degree

- Management

We know how busy you are, so at UMass Lowell we have organized our programs and services to help you reach your educational goals conveniently and effectively. A full range of degree options are available on a part-time basis. You can take individual courses to build certificates or degree programs and to fulfill your liberal arts requirements.

SEE HOW EASY IT IS TO COUNT YOUR CERTIFICATE PROGRAM COURSES TOWARDS A DEGREE! JOIN US AT OUR OPEN HOUSE ON MAY 13TH, OR CALL THE ADVISING CENTER AT (978) 934-2474!

10 REASONS TO PURSUE A DEGREE AT UML

- PURSUE A DEGREE AND CERTIFICATE AT THE SAME TIME WITH THE SAME COURSES
- FOCUS ON YOUR INTERESTS THROUGH OUR FLEXIBLE DEGREE STRUCTURE
- TRANSFER CREDITS FROM PAST INSTITUTIONS
- ACCELERATE YOUR DEGREE PROGRAM: EARN CREDITS BY PASSING SPECIAL DEPARTMENTAL EXAMS
- CUSTOMIZE YOUR PROGRAM WITH QUALITY ADVISORS
- COLLABORATE WITH FACULTY EXPERTS
- COMPETE IN THE MARKETPLACE WITH CUTTING-EDGE TECHNOLOGY SKILLS
- PURSUE COURSES ON-CAMPUS, ONLINE, OR AT CORPORATE LOCATIONS
- ENJOY HIGH-QUALITY PRESTIGE AND ACCREDITATION
- BOLSTER YOUR SUCCESS WITH PERSONALIZED ADVISING AND SUPPORT SERVICES

NOW AVAILABLE: Women's Studies Concentration in the Bachelor of Liberal Arts degree program. See <http://continuinged.uml.edu/online> for details. Students who have graduated from high school or who have earned a high school equivalency certificate are invited to apply into these programs.

SIGNATURE DEGREE PROGRAMS

EARN A BACHELOR'S DEGREE

in Liberal Arts Part-Time... On Campus or Online!

"I had taken a number of courses at another educational institution, but I wasn't able to finish my degree at that time. When I spoke with an advisor at UMass Lowell, they helped to determine how many of the courses I had taken elsewhere could be counted towards a part-time degree at UMass Lowell. After transferring a number of those courses into my program, I was able to complete my Bachelor's Degree in Liberal Arts by taking a combination of UMass Lowell's online and on campus courses. The advisors were extremely helpful and the flexibility of the program enabled me to complete the degree at a comfortable, convenient pace."

— Sandra A. Bailey, Recent Graduate

Students interested in learning more about the University's bachelor's degree program in Liberal Arts can make an appointment for general advising or plan on coming to Continuing Studies' Summer Open House on May 13th. To make an appointment for advising or transfer credit evaluations, please contact Claire Murphy at (978) 934-2476 or email Claire_Murphy@uml.edu.

EARN A B.S. IN INFORMATION TECHNOLOGY

ON CAMPUS OR ONLINE

THE BACHELOR'S DEGREE IN

Information Technology



UMass Lowell offers adult learners a flexible Bachelor's Degree in Information Technology that accelerates degree completion. Courses offered online, on campus, or as a mix can be applied to cutting-edge certificates and/or a full Associate's or Bachelor's Degree in Information Technology. Our faculty advisors will work with you to evaluate transfer credits and build a degree around your unique needs.

"With the economy where it is, I knew I had to get a high-demand credential and that I had to do it quickly. By taking a mix of online and on-campus courses in Information Technology, I was able to accelerate my progress towards earning a degree in Information Technology."

— Valerie Cox, Recent Graduate

ALL THE COURSES YOU NEED TO COMPLETE YOUR DEGREE ARE AVAILABLE ON CAMPUS OR ONLINE AND ARE OFFERED THREE SEMESTERS PER YEAR: Fall, Spring, & Summer.

ONLINE DEGREES & CERTIFICATES

FIND OUT HOW **EASY** IT IS TO **TAKE A COURSE OR COMPLETE YOUR DEGREE ONLINE!**

Looking for our online course listings?

They are now integrated into the Undergraduate & Graduate Course Listings on pages 8–16.

JOIN US AT OUR FREE DISTANCE EDUCATION ORIENTATION ON TUESDAY, MAY 13TH! CALL 978-934-2474 TO RESERVE YOUR SEAT TODAY.

- * Graduate & Undergraduate**
- * Fully Accredited**
- * Affordable Tuition**

UMass Lowell's Distance Education program allows you to take classes from the convenience of your home or office. Register for one or two courses or pursue a degree or certificate program entirely online.

Online Undergraduate Degree Programs

- * Associate's Degree in Information Technology
- * Bachelor's Degree in Information Technology
- * Bachelor's Degree in Information Technology: Business Minor
- * Bachelor's Degree in Liberal Arts

Online Graduate Degree Programs

- * Master's Degree in Educational Administration
- * Master's Degree in Criminal Justice

NEW!

Online Undergraduate Certificate Programs

- * Certificate in Contemporary Communications
- * Certificate in Multimedia Applications
- * Certificate in UNIX
- * Certificate in Fundamentals of Information Technology
- * Certificate in Intranet Development
- * Certificate in Data/Telecommunications
- * Certificate in Plastics Technology

Online Graduate Certificate Programs

- * Certificate in Clinical Pathology
- * Certificate in Photonics and Optoelectronics
- * Certificate in Foundations of Business

Call (978) 934-2474 or visit <http://continuinged.uml.edu/online> to test drive a Distance Education course today!

The University of Massachusetts System offers additional courses and programs online. Visit www.UMassOnline.net for more details.

Please note: There are no veteran or senior citizens waivers for distance learning courses. Please refer to page 18.

This Summer Learn to Teach Online Without Commuting to Campus.

The UMass Lowell Online Teaching Institute will help you develop or enhance your online teaching skills. Our three to four week online courses will help you prepare for the fall semester.

Introduction to Online Teaching Strategies

00.054-031	May 27th – June 20th
00.054-032	June 25th – July 29th

Teaching Online with IntraLearn

00.055-031	July 7th – August 1st
00.055-032	August 4th – August 29th

Digital Media Streaming for your Online Course

00.056-031	July 7th – August 1st
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Teaching with Online Teams

00.057-031	July 7th – July 25th
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\$499 per person per session, special reduced rate if 3 or more participants attend from the same institution. For course descriptions or more information, call (978) 934-2142 or visit our website <http://continuinged.uml.edu/online/institutes.htm>

To register for a course call (978) 934-2700.

Online Education Course Registration and Confirmation

Students should make sure they have fulfilled the particular course prerequisites prior to registering for a course. To register for a UMass Lowell Online Education course, see the registration form on page 20, or call (978) 934-2700 or toll free (800) 480-3190. Be sure to provide your email address when you register!

All students are assigned a user name, password, and the Website address for their course. To obtain this information, each student must complete the Online Registration Confirmation. Visit the Online Education Website at <http://continuinged.uml.edu/online> and complete the Online Registration Confirmation two business days after registering for your course.

Student Technical Skills and Requirements

All students new to Online Education should complete the free Online Demonstration course available on the Online Education Website. Various internet utilities (e.g. mIRC, ftp, telnet) are required for some Online Education courses. Students are responsible for learning to use course-related utilities before enrolling in a Online Education course. Tutorials are available on the Online Education Website.

Online Course Software Requirements — Be sure to check our Website at <http://continuinged.uml.edu/online> to confirm course software requirements.

For the latest information regarding our online courses and programs, visit the Online Education website at: <http://continuinged.uml.edu/online> or call (978) 934-2474.

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Object-Oriented Software
Development Using C++
Oracle Architecture and
Administration
PL/SQL

Plastics Part Design
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Six Sigma
UNIX
Visual Basic.NET
XML

Summer 2003 (May – August 2003)

CORPORATE SIGNATURE SEMINAR SERIES

A special series of one- to three-day seminars will be held at UMass Lowell's Corporate Conference Center and state-of-the-art computer labs. Faculty will conduct condensed seminars, which have been specially designed to meet the high-priority training needs of regional professionals.

SEMINARS WILL BE OFFERED IN THE FOLLOWING AREAS:

Management Seminars

Business Writing for Results
Fundamentals of Investing
Improving Performance Using Emotional Intelligence
Project Management Training Program
CRM — Customer Relationship Management

See Page 11 for dates and times on management seminars

Information Technology Seminars

Advances in Wireless Communications
C# .NET for the Novice Software Developer
C# .NET for the Experienced Software Developer
C++ for the Novice Software Developer
Java 2 for the Novice Software Developer
Java 2 for the Advanced Software Developer
Perl for the Novice Software Developer
Visual Basic .NET

Security Management Seminar

Security Management

Creative Arts/Media Seminars

Flash MX for Internet Developers
Rich Internet Applications Using Flash MX

Note: These seminars can also be delivered onsite at your company.

FOR FURTHER INFORMATION ON THESE SEMINARS, DATES, LOCATIONS, AND TO REGISTER PLEASE CALL (978) 934-2405 FOR A DETAILED BROCHURE OR VISIT OUR WEBSITE AT [HTTP://CONTINUINGED.UML.EDU/CORPORATE](http://continuinged.uml.edu/corporate)

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PLASTICS TRAINING?



The University of Massachusetts Lowell is one of the nation's leading universities in the plastics field. The Plastics Engineering Department was established in 1954 and has since gained worldwide recognition for its state-of-the-art training, research, and experienced faculty who travel nationally and internationally conferring on newly developed concepts and consulting with plastics industry leaders.

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May 19–June 27
Summer Session I

Day Classes begin on May 19 and meet Monday through Thursday for 3-credit courses and meet Monday through Friday for 4-credit courses.
M/W Evening Classes begin on May 19 and include 3 FRIDAYS: May 30, June 13, and June 27 at the regularly scheduled hours.
T/Th Evening Classes begin on May 20 and include 2 FRIDAYS: June 6 and June 20 at the regularly scheduled hours.

Reminder: This course listing combines the University of Massachusetts Lowell day school courses and the continuing studies courses. It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
Accounting	60.201-011	Accounting/Financial	T/Th	6:00-9:00 pm	3		Charles Thompson
	60.201-031	Accounting/Financial (5/19-8/15)	➤ Online Course		3		Clairmont Carter
	60.202-011	Accounting/Managerial	M/W	6:00-9:00 pm	3	P: 60.201	Laura Scanlon
	60.202-031	Accounting/Managerial (5/19-8/15)	➤ Online Course		3	P: 60.201; requires proctored exams	Stephen Collins
	60.331-011	Cost Management Systems	M-Th	8:00-10:00 am	3	P: 60.202, BSBA students (non-Accounting majors), and College of Management Dean permission	John Hamer
CERTIFICATE IN ACCOUNTING							
Art/Computer Graphics	70.245-021	Desktop Publishing: Layout and Production w/Quark XPress (Mac) (5/19-8/15)	Thurs	7:00-10:00 pm	3	P: Basic Macintosh proficiency	Alison Poor-Donahue
	70.262-011	Digital Imaging and Photography: Photoshop/Windows	M/W	6:30-9:30 pm	3	P: Basic Windows proficiency	Ella Carlson
	70.264-011	Computer Graphics and Illustration: Adobe Illustrator/Mac	M/W	6:30-9:30 pm	3	P: Basic Macintosh proficiency	Alene Sirott-Cope
	70.291-021	Intro. to Graphic Design (5/19-8/15)	Tues	7:00-10:00 pm	3	P: Basic Macintosh or Windows proficiency	Alison Poor-Donahue
	70.379-011	Website Design/Windows	T/Th	7:00-10:00 pm	3	P: 90.238, and 90.231 or 70.262.	Jay Kamins
	70.385-021	Streaming Media for the Web/Windows (5/19-8/15)	Mon	6:30-9:30 pm	3	P: 70.379, 70.384	Michael Lucas
NOTE: While the above courses will not directly transfer into the Art Department's Bachelor of Fine Arts Day School degree program, certain two-course clusters may be accepted for transfer upon prior department approval. CERTIFICATE IN GRAPHIC DESIGN AND DIGITAL IMAGING (See page 3 for required courses.) CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)							
Art History	58.101-011	Art Appreciation	T/Th	7:00-10:00 pm	3	AE, Cultural Diversity	Charles Giuliano
	58.203-031	History of Art I: Prehistoric to Medieval (5/19-8/15)	➤ Online Course		3	HSA, AE, Cultural Diversity	Liana Cheney
	58.204-031	History of Art II: Renaissance to Modern (5/19-8/15)	➤ Online Course		3	HSA, AE, Cultural Diversity	Liana Cheney
	58.221-011	Twentieth Century Art	M/W	7:00-10:00 pm	3		Cynthia Fowler
	58.350-011	Post Modernism (Contemporary Art)	M-Th	10:15 am-12:15 pm	3		Norma Steinberg
	58.494-011	Directed Studies	TBA	TBA	3	P: Instructor permission	Liana Cheney
	58.496-011	Practicum in Art History	TBA	TBA	3	P: Instructor permission	Liana Cheney
	59.326-011	Multimedia for Cultural Studies	M/W	7:00-10:00 pm	3		Andy Alfano
Biological Sciences	83.101-011	Life Science I	T/Th	6:00-9:00 pm	3	C: 83.103; SL	Valerie Graves
	83.214-031	Human Ecology (5/19-8/15)	➤ Online Course		3	SL	Priscilla Mattson
Chemistry	84.101-031	Applied Chemistry for Non-Scientists (5/19-8/15)	➤ Online Course		3	SL	Philip Lamprey
	84.111-011	General Chemistry I	M-Th	10:15 am-12:15 pm	3	C: 84.113; SL	Judith Goldsberry
	84.113-011	General Chemistry Lab I	M/W/Th	2:45-5:45 pm	1 (3)	C: 84.111; SL	Paul Damour
	84.121-011	Chemistry I	M/W	7:00-10:00 pm	3	C: 84.123; SL	Judith Goldsberry
	84.122-011	Chemistry II	M/W	7:00-10:00 pm	3	P: 84.121; C: 84.124; SL	Harold Garey
	84.123-011	Chemistry Lab I	T/Th	7:00-10:00 pm	1 (3)	C: 84.121; SL	Paul Damour
	84.124-011	Chemistry Lab II	T/Th	7:00-10:00 pm	1 (3)	C: 84.122; SL	John Sarabia
	84.221-011	Organic Chemistry I	M/T/Th	2:45-5:15 pm	3	P: 84.122; C: 84.229	Gene Davis
	84.221-012	Organic Chemistry I	T/Th	7:00-10:00 pm	3	P: 84.122; C: 84.229	Gene Davis
	84.229-011	Organic Chemistry Laboratory IA	T/Th	6:00-10:00 pm	1 (4)	C: 84.221	Judith Freeman
	84.229-012	Organic Chemistry Laboratory IA	M/W	6:00-10:00 pm	1 (4)	C: 84.221	Judith Freeman
Cinema	52.325-011	Italian Cinema and Culture	M-Th	8:00-10:00 am	3	VCA	Mario Aste
	52.335-011	Cinema and Italian Americans	M-Th	10:15 am-12:15 pm	3	VCA	Mario Aste
Civil and Environmental Engineering	14.203-011	Statics (alternate 22.211)	M-Th	12:30-2:30 pm	3	P: 92.132, 95.141	M. G. Reardon
	14.204-011	Strength of Materials (alternate 22.212)	M-Th	8:00-10:00 am	3	P: 14.203	Faize Jamil
Civil Engineering Technology	15.113-011	CAD	T/Th	7:00-10:00 pm	2 (3)	P: 23.101 or instructor permission	Kevin Gagne
	15.131-011	Environmental Chemistry	M/W	7:00-10:00 pm	3	SL	Charles Panagiotakos
CERTIFICATE IN HAZARDOUS WASTE MANAGEMENT CERTIFICATE IN ENVIRONMENTAL TECHNOLOGY CERTIFICATE IN SURVEYING							
Civil Engineering Technology Water/ Wastewater Option	CERTIFICATE IN HAZARDOUS WASTE MANAGEMENT CERTIFICATE IN ENVIRONMENTAL TECHNOLOGY						
Client/Server Technology	(See courses listed under Information Technology.) CERTIFICATE IN CLIENT/SERVER DATABASE DESIGN AND ADMINISTRATION (See page 4 for required courses.)						
Computer Mathematics	(See courses listed under Information Technology.)						
Computer Science	91.113-011	Exploring the Internet	M/W	6:30-9:30 pm	3	Non-CS Majors only	Peter Weston
	91.113-031	Exploring the Internet (5/19-8/15)	➤ Online Course		3	Non-CS Majors only	Patrick Krolak
	91.201-021	Computing III (5/19-8/22)	T/Th	4:00-5:15 pm	4	P: 91.102; requires permission of Computer Science Chair	Department Faculty
	94.301-021*	Organization of Programming Languages (5/19-8/22)	TBA	TBA	3	P: 91.250 or equivalent	Department Faculty
	94.305-021*	Computer Architecture (5/19-8/22)	TBA	TBA	3	P: 91.250 or equivalent	Department Faculty
	94.308-021*	Introduction to Operating Systems (5/19-8/22)	Wed	5:00-8:00 pm	3	P: 94.305, 91.250 or equivalent	Department Faculty
	94.404-021*	Analysis of Algorithms (5/19-8/22)	TBA	TBA	3	P: 91.250, 91.322	Department Faculty
	*Requires Graduate Coordinator permission.						

ACADEMIC CREDIT COURSE LISTING

	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor	
Criminal Justice (See also Paralegal Studies)	44.101-011	Introduction to the Criminal Justice System	T/Th	7:00-10:00 pm	3		Joseph Burke	
	44.111-011	Introduction to Industrial Security	M/W	6:00-9:00 pm	3		Allan Roscoe	
	44.478-011	Child Maltreatment	T/Th	6:00-9:00 pm	3		Alicen McGowan	
	44.496-011	Criminal Justice Practicum	TBA	TBA	3	P: Instructor permission	Allan Roscoe	
	CERTIFICATE IN COMMUNITY POLICING CERTIFICATE IN PARALEGAL STUDIES							
Economics	49.201-011	Economics I (Microeconomics)	M-Th	8:00-10:00 am	3	P: 90.111; BS	Ronald Hemenway	
	49.201-012	Economics I (Microeconomics)	T/Th	6:00-9:00 pm	3	P: 90.111; BS	Ronald Olive	
	49.201-031	Economics I (Microeconomics) (5/19-8/15)	> Online Course		3	P: 90.111; BS	Michael Carter	
	49.201-032	Economics I (Microeconomics) (5/19-8/15)	> Online Course		3	P: 90.111; BS	Ilter Bakkal	
	49.202-011	Economics II (Macroeconomics)	M/W	6:00-9:00 pm	3	P: 90.111; BS	Patricia Machado	
	49.202-031	Economics II (Macroeconomics) (5/19-8/15)	> Online Course		3	P: 90.111; BS	Michael Carter	
	49.211-011	Statistics I	M-Th	10:15 am-12:15 pm	3	P: 92.122 or equivalent	Harjeet Khosla	
49.211-012	Statistics I	M/W	6:00-9:00 pm	3	P: 92.122 or equivalent	Harjeet Khosla		
Electrical and Computer Engineering	16.201-021*	Circuit Theory I (5/19-7/22)	M/W	2:00-4:00 pm	3	P: 92.132; C: 16.207	Mufeed Mah'd	
	16.202-021*	Circuit Theory II (5/19-7/22)	M/W	10:15 am-12:15 pm	3	P: 16.201; C: 16.208	Tenneti Rao	
	16.207-021*	Circuits I Lab (5/19-7/22)	Mon	4:00-7:00 pm	2 (3)	P: 92.132; C: 16.201	Department Faculty	
	16.207-022*	Circuits I Lab (5/19-7/22)	Wed	7:00-10:00 pm	2 (3)	P: 92.132; C: 16.201	Department Faculty	
	16.208-021*	Circuits II Lab (5/19-7/22)	Thurs	4:00-7:00 pm	2 (3)	P: 16.207; C: 16.202	Department Faculty	
	16.208-022*	Circuits II Lab (5/19-7/22)	Thurs	7:00-10:00 pm	2 (3)	P: 16.207; C: 16.202	Department Faculty	
	16.265-021*	Logic Design (5/19-7/22)	T/Th	10:15 am-12:15 pm	3	P: 25.108 or 91.101	Anh Tran	
	16.311-011	Electronics I Lab (5/19-7/22)	Tues	4:00-7:00 pm	2 (3)	P: 16.202; C: 16.365	Alan Rux	
	16.311-012	Electronics I Lab (5/19-7/22)	Thurs	7:00-10:00 pm	2 (3)	P: 16.202; C: 16.365	Alan Rux	
	16.317-021*	Microprocessor System Design (5/19-7/22)	T/Th	10:15 am-12:15 pm	3	P: 16.265; C: 16.365	Adam Elbirt	
	16.363-021*	Signals and Systems II (5/19-7/22)	M/W	6:00-8:00 pm	3	P: 16.362	Richard Cornely	
	16.364-021*	Engineering Math (5/19-7/22)	M/W	10:15 am-12:15 pm	3	P: 92.234 & 16.201	A. J. Noushin	
	16.365-021*	Electronics I (5/19-7/22)	M/W	10:15 am-12:15 pm	3	P: 16.202, 92.238; C: 16.311	Mufeed Mah'd	
	16.410-011	Project Laboratory	TBA	TBA	3	P: Department Faculty permission	Ziyad Salameh	
	16.453-021*	Software Engineering (5/19-7/22)	T/Th	6:00-8:00 pm	3	P: 16.216 16.322	Marc Bumble	
	16.491-011	Industrial Experience	TBA	TBA	3	P: Permission by Alan Rux	Alan Rux	
	16.492-011	Industrial Experience	TBA	TBA	3	P: Permission by Alan Rux	Alan Rux	
	16.493-011	Industrial Experience	TBA	TBA	3	P: Permission by Alan Rux	Alan Rux	
	*Note: The above asterisked courses are held from May 19-July 22. M/W courses begin May 19 with the final exam on July 21. T/Th courses begin May 20 with the final exam on July 22.							
	Electronic Engineering Technology	17.130-011	Electrical Basics and Laboratory	T/Th	7:00-10:00 pm	2 (3)	P: Instructor permission; not available for E.E.T. majors	Jan Yang
17.201-031		Introduction to Fiber Optics (5/19-8/15)	> Online Course		3	P: Algebra and Trigonometry background	Sandip Sengupta	
CERTIFICATE IN COMPUTER ENGINEERING TECHNOLOGY (See page 4 for required courses.) CERTIFICATE IN ELECTRONICS TECHNOLOGY (See page 4 for required courses.) CERTIFICATE IN ELECTRO-OPTICS TECHNOLOGY								
English	42.101-011*	College Writing I	M-Th	8:00-10:00 am	3		William Coughlin	
	42.101-031*	College Writing I (5/19-8/15)	> Online Course		3	P: Requires MS Word	Richard Keating	
	42.101-032*	College Writing I (5/19-8/15)	> Online Course		3	P: Requires MS Word	William Allen	
	42.102-011	College Writing II	M-Th	10:15 am-12:15 pm	3	P: 42.101	William Coughlin	
	42.102-012	College Writing II	T/Th	7:00-10:00 pm	3	P: 42.101	Clifford Lewis	
	42.102-031	College Writing II (5/19-8/15)	> Online Course		3	P: 42.101; requires MS Word	Marie Salamone	
	42.102-032	College Writing II (5/19-8/15)	> Online Course		3	P: 42.101; requires MS Word	Marie Salamone	
	42.103-011*	College Writing I for International Students	T/Th	6:00-9:00 pm	3		Department Faculty	
	42.212-011	The Short Story	M-Th	8:00-10:00 am	3	P: 42.102; LT	Todd Avery	
	42.212-031	The Short Story (5/19-8/15)	> Online Course		3	P: 42.102; LT; requires MS Word	Ashmita Khasnabish	
	42.217-011	The Horror Story	T/Th	7:00-10:00 pm	3	P: 42.102; LT	Todd Avery	
	42.224-031**	Business Writing (5/19-8/15)	> Online Course		3	P: 42.102; requires MS Word	Nancy Brown	
	42.224-032**	Business Writing (5/19-8/15)	> Online Course		3	P: 42.102; requires MS Word	Nancy Brown	
	42.226-011**	Technical and Scientific Communication	T/Th	7:00-10:00 pm	3	P: 42.102	Peter Payack	
	42.226-031**	Technical and Scientific Communication (5/19-8/15)	> Online Course		3	P: 42.102; requires MS Word	Peter Payack	
	42.232-011	Turning Fiction into Film	M/W	7:00-10:00 pm	3	P: 42.102; LT	Dina Bozicas	
	42.282-011	Crime in Literature	M-Th	8:00-10:00 am	3	P: 42.102; LT	William Hersey	
	42.294-011	History of American Literature I	M-Th	10:15 am-12:15 pm	3	P: 42.102; LT	Anthony Szczesiul	
	42.302-011	Creative Writing: Fiction	M/W	7:00-10:00 pm	3	P: 42.102	Jay Atkinson	
	42.303-011	Creative Writing: Poetry	T/Th	7:00-10:00 pm	3	P: 42.102	Gregoire Turgeon	
	42.403-021	Advanced Software Writing	Tues	6:00-9:00 pm	3	P: 42.402	Stephen Murphy	
	*Students will not receive credit for both 42.101 and 42.103. **Students may not receive credit for both 42.224 and 42.226							
	CERTIFICATE IN TECHNICAL WRITING							
	Environmental Science	87.115-011	Astronomy	T/Th	7:00-10:00 pm	3	SL	Arnold O'Brien
		87.117-011	Astronomy Lab	M/W	7:00-10:00 pm	1 (2)	SL	Arnold O'Brien
	Graphic Design and Digital Imaging	(See courses listed under Art and Information Technology.) CERTIFICATE IN GRAPHIC DESIGN AND DIGITAL IMAGING (See page 3 for required courses.)						
	Health Professions	30.201-031	Community Health (5/19-8/15)	> Online Course		3	Open to all students	Nicole Champagne
30.315-011		Kinesiology and Lab	M-F	10:15 am-12:15 pm	4	P: Two semesters each: Anatomy and Physiology, Physics; not open to UMass Lowell Exercise Physiology majors	Department Faculty	
35.101-011		Human Anatomy and Physiology I	T/Th	6:15-9:15 pm	3	C: 35.103; SL	Paul Fierimonte	
35.103-011		Human Anatomy and Physiology I Lab	T/W/Th	2:00-5:00 pm	1 (3)	C: 35.101; SL	Alease Bruce	
35.356-011		Pharmacology	M-Th	8:00-10:00 am	3	P: 35.252	Arthur Vergados	
36.350-011		Human Biochemistry	M-Th	11:00 am-1:00 pm	3	P: 35.252 or equivalent	Thomas Wilson	
36.414-031		Infectious Disease (5/19-8/15)	> Online Course		3	P: One semester of General Microbiology	S. Fessia - Richardson	
CERTIFICATE IN NUTRITION								
History (See also Art History)	43.105-011	Western Civilization to 1715	M-Th	8:00-10:00 am	3	HS	Diane Lewis	
	43.206-031	American Economic History (5/19-8/15)	> Online Course		3	HS	Joseph Lipchitz	
	43.242-031	The Second World War (5/19-8/15)	> Online Course		3	HS; requires proctored exams	Donald Mattheisen	
	43.274-031	Native American History (5/19-8/15)	> Online Course		3	HS; requires proctored exams	Diane Lewis	
	NEW! 43.334-011	The French Revolution and Napoleon	T/Th	6:00-9:00 pm	3	HS	Stephen Russell	
	43.371-011	Medieval Institutions	M-Th	10:15 am-12:15 pm	3	HS	Joseph Lipchitz	
	NEW! 43.382-011	The American West	M/W	6:00-9:00 pm	3	HS	Mark Herlihy	
Information Technology including Multimedia and Graphics	90.160-011	Introduction to Information Systems	T/Th	6:00-9:00 pm	3		Christopher Gambon	
	90.160-031	Intro. to Information Systems (5/19-8/15)	> Online Course		3		Syama Chaudhuri	
	90.160-032	Intro. to Information Systems (5/19-8/15)	> Online Course		3		Syama Chaudhuri	
	90.171-031	Applications Software: Access (5/19-8/15)	> Online Course		3	P: Familiarity with MS Word and MS Excel; requires MS Access XP	Janis Ozimek-Maier	
	90.202-031	Intro. to PCs and MS Office (5/19-8/15)	> Online Course		3	P: Requires MS Office XP	Robin Desmond	

ACADEMIC CREDIT COURSE LISTING

No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
90.211-011*	Intro. to Programming with C - Part I	T/Th	7:00-10:00 pm	3	P: No previous prog. experience required	Fuquan Gao
90.211-031*	Intro. to Programming with C - Part I (5/19-8/15)	> Online Course		3	P: No previous prog. experience required; ANSI C/C++ standard compiler required	James Sears
90.211-032*	Intro. to Programming with C - Part I (5/19-8/15)	> Online Course		3	P: No previous prog. experience required; ANSI C/C++ standard compiler required	James Sears
90.212-011*	Introduction to Programming with C - Part II	M/W	6:00-9:00 pm	3	P: 90.211	Lee Clark
90.212-031*	Intro. to Programming with C - Part II (5/19-8/15)	> Online Course		3	P: 90.211; req. ANSI C/C++ standard compiler	Lisa Panagopoulos
90.220-011	Visual Basic	T/Th	7:00-10:00 pm	3	P: Requires Visual Basic.NET	Leo Javis
90.220-031	Visual Basic (5/19-8/15)	> Online Course		3	P: Familiarity with Windows and working knowledge of a high-level language; requires Visual Basic.NET	Carol Thomas
90.224-031	Advanced Visual Basic (5/19-8/15)	> Online Course		3	P: 90.220, familiarity with Visual Basic.NET; requires Visual Basic.NET	Carol Thomas
NEW! 78.201-021	Intro to Audio for Multimedia and the Web/Windows (See Summer II Schedule on page 14)					
90.230-011	Intro to Multimedia/Windows	T/Th	7:00-10:00 pm	3	P: Basic Mac or Windows proficiency	Chris Perry
90.230-031	Introduction to Multimedia (5/19-8/15)	> Online Course		3	P: Basic Mac or Windows proficiency; requires eZedia MX software	Rob Graham
90.230-032	Introduction to Multimedia (5/19-8/15)	> Online Course		3	P: Basic Mac or Windows proficiency; requires eZedia MX software	Joy Steinberg
90.231-011	Graphics for Multimedia and the World Wide Web/Windows	M/W	6:30-9:30 pm	3	P: 90.230	Marina Javis
90.231-031	Graphics for Multimedia and the World Wide Web/Windows (5/19-8/15)	> Online Course		3	P: 90.230; requires Photoshop 5.0 or higher; access to a scanner	Randy Howe
90.232-031	Desktop Video Production (5/19-8/15)	> Online Course		3	P: 90.230; requires Adobe Premiere	Michael Murie
90.233-031	Multimedia Authoring Software: Director (5/19-8/15)	> Online Course		3	P: 90.230 or instructor permission; requires Macromedia Director MX	Beatrice Lee
90.234-031	Designing and Developing Interactive Media/Windows (5/19-8/15)	> Online Course		3	P: 90.230, 90.231, 90.232, 90.233 or instructor permission	Rob Graham
90.238-011	Website Development: FrontPage/Windows	T/Th	7:00-10:00 pm	3	P: 90.291; 90.231 recommended	Janine Jacques
90.238-031	Website Development: Front Page/Windows (5/19-8/15)	> Online Course		3	P: 90.291; 90.231 recommended; requires MS FrontPage 2002 (Academic Version but not FrontPage Express)	Judith Feeney
90.247-031	Advanced Web Authoring: Flash (5/19-8/15)	> Online Course		3	P: 90.291, 90.302 or prog. familiarity; requires Macromedia Flash MX	Michael Murie
90.267-011*	C Programming	T/Th	6:00-9:00 pm	3	P: Previous programming experience	Nancy Kiernan
90.267-012*	C Programming	M/W	7:00-10:00 pm	3	P: Previous programming experience	Timothy Niesen
90.267-031*	C Programming (5/19-8/15)	> Online Course		3	P: Previous programming experience; requires C compiler software	Timothy Niesen
90.267-032*	C Programming (5/19-8/15)	> Online Course		3	P: Previous prog. experience; requires C compiler software	Ann Marie Hurley
90.268-011	C++ Programming	T/Th	7:00-10:00 pm	3	P: 90.267 or 90.212	Joseph Russell
90.268-012	C++ Programming	M/W	7:00-10:00 pm	3	P: 90.267 or 90.212	Thomas Kostizak
90.268-031	C++ Programming (5/19-8/15)	> Online Course		3	P: 90.267 or 90.212; req. C++ compiler software	Mark Hertel
90.269-031	Advanced C++ (5/19-8/15)	> Online Course		3	P: 90.268, exper. with Data Structures; requires C++ compiler software	Mark Hertel
90.270-031	Visual C++ (5/19-8/15)	> Online Course		3	P: 90.268; requires Visual Studio.NET	Barbara Bancroft
NEW! 90.271-011	C# (C Sharp)	T/Th	7:00-10:00 pm	3	P: 90.268 or 90.301	James Brzowski
90.291-031	Introduction to DHTML (5/19-8/15)	> Online Course		3		William Dubie
90.291-032	Introduction to DHTML (5/19-8/15)	> Online Course		3		Margaret Burke
90.292-011	Advanced DHTML	M/W	7:00-10:00 pm	3	P: 90.291	David Sciuto
90.292-031	Advanced DHTML (5/19-8/15)	> Online Course		3	P: 90.291	Isobel Davis
90.297-011	Introduction to Java Programming	M/W	6:30-9:30 pm	3	P: Previous prog. experience required	Department Faculty
90.297-031	Intro. to Java Programming (5/19-8/15)	> Online Course		3	P: Previous prog. experience required; Sun Java Development Kit required	Lance Smith
90.301-011	Java Programming/Windows	T/Th	7:00-10:00 pm	3	P: 90.297 or 90.268	Elizabeth Kramer
90.301-031	Java Programming (5/19-8/15)	> Online Course		3	P: 90.297 or 90.268; requires Sun Java Development Kit	Mark Cohen
90.302-011	JavaScript	T/Th	7:00-10:00 pm	3	P: 90.291 or knowledge of HTML	David Sciuto
90.303-021	Advanced Java Programming (5/19-8/15)	Thurs	6:30-9:30 pm	3	P: 90.301	Siva Ghatti
90.303-031	Advanced Java Programming (5/19-8/15)	> Online Course		3	P: 90.301; req. Sun Java Development Kit	Fred Yao
90.305-011	Introduction to Perl	T/Th	7:00-10:00 pm	3	P: 90.267	Jonathan Worthley
90.305-031	Introduction to Perl (5/19-8/15)	> Online Course		3	P: 90.267	Gregory Rushton
90.307-031	Advanced Topics in Java and XML (5/19-8/15)	> Online Course		3	P: 90.303, 90.306; requires Sun Java Development Kit	Mark Cohen
90.311-011	Introduction to the UNIX Operating System	T/Th	7:00-10:00 pm	3		Andrew Garside
90.311-012	Introduction to the UNIX Operating System	M/W	7:00-10:00 pm	3		Partha Mittra
90.311-031	Introduction to the UNIX Operating System (5/19-8/15)	> Online Course		3		Fred Vegliante
90.311-032	Introduction to the UNIX Operating System (5/19-8/15)	> Online Course		3		Sean McGowan
90.312-011	UNIX Shell Programming	M/W	7:00-10:00 pm	3	P: 90.311, and 90.267 or 90.212	Sean McGowan
90.312-031	UNIX Shell Programming (5/19-8/15)	> Online Course		3	P: 90.311, and 90.267 or 90.212	Michael Richards
90.319-031	Introduction to Linux (5/19-8/15)	> Online Course		3	P: Requires Red Hat Standard Ed. Version 8.0	Justin Seiferth
NEW! 90.320-031	Shell Scripting Using Linux (5/19-8/15)	> Online Course		3	P: 90.319; requires Red Hat Standard Ed. Version 8.0	Justin Seiferth
90.321-031	Linux System Administration (5/19-8/15)	> Online Course		3	P: Shell Scripting experience; requires Red Hat Standard Ed. Version 8.0	Barbara Bancroft
90.360-021	Introduction to Data Structures Using C (5/19-8/15)	Tues	6:30-9:30 pm	3	P: 90.364, and 90.267 or 90.212	Siva Ghatti
90.360-031	Introduction to Data Structures Using C (5/19-8/15)	> Online Course		3	P: 90.364, and 90.267 or 90.212	Isobel Davis
90.364-011	Problem Solving with C	M/W	7:00-10:00 pm	3	P: 90.212 or 90.267	Lisa Panagopoulos
90.364-031	Problem Solving with C (5/19-8/15)	> Online Course		3	P: 90.212 or 90.267	Sean McGowan
90.443-011	Fundamentals of Client/Server Computing	T/Th	6:00-9:00 pm	3		Umesh Bhargava
90.450-021	Oracle Architecture and Administration (5/19-8/15)	Mon	7:00-10:00 pm	3	P: 90.474	James Cole
90.450-022	Oracle Architecture and Administration (5/19-8/15)	Tues	7:00-10:00 pm	3	P: 90.474	James Cole
90.454-021	Oracle Structured Query Language (SQL) (5/19-8/15)	Sat	9:00 am-12:00 pm	3	P: 90.474	Jeff Yang
90.457-011	Network Security	M/W	7:00-10:00 pm	3	P: 90.463 or instructor permission	Tak Yin Wong
90.459-021	Oracle Procedural Language Development (5/19-8/15)	Wed	7:00-10:00 pm	3	P: 90.454	Leon Xia
90.461-011	LAN/WAN Technologies	T/Th	6:00-9:00 pm	3	P: 90.267 or previous prog. experience	Jaime Fernandez

ACADEMIC CREDIT COURSE LISTING

No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor	
90.461-031	LAN/WAN Technologies (5/19-8/15)	> Online Course		3	P: 90.267 or previous prog. experience	Ed Barnes	
90.462-011	TCP/IP and Network Architecture	M/W	6:00-9:00 pm	3	P: 90.461	Arvind Kukreja	
90.462-031	TCP/IP and Network Architecture (5/19-8/15)	> Online Course		3	P: 90.461	Ed Barnes	
90.463-011	Advanced Networking Technology	M/W	7:00-10:00 pm	3	P: 90.461	Krishnajeel Putcha	
90.464-031	Network Management (5/19-8/15)	> Online Course		3	P: 90.461	Jaime Fernandez	
90.474-021	Relational Database Concepts (5/19-8/15)	Thurs	7:00-10:00 pm	3	P: 90.267	Robert Demers	
90.474-031	Relational Database Concepts (5/19-8/15)	> Online Course		3	P: 90.267	Paul Giguere	
90.480-031	Project-Based Information Systems (5/19-8/15)	> Online Course		6	P: Junior status; can be used to replace the sequence of 90.477 and 90.478	Jon Forsyth	
NEW! 90.483-011	Wireless Communications (Held at Veterans Admin. Medical Center, Bedford, MA)	T/Th	6:00-9:00 pm	3	P: 90.463 or instructor permission	Krishnajeel Putcha	
NEW! 90.484-011	Optical Networking SONET/SDH	M/W	7:00-10:00 pm	3	P: 90.463 or instructor permission	Faize Jamil	
NEW! 90.486-011	MultiProtocol Label Switching (MPLS)	T/Th	7:00-10:00 pm	3	P: 90.462 or instructor permission	Jerry Nadler	
*Students will not receive credit for both 90.267 and the 90.211/90.212 sequence. FOR INFORMATION TECHNOLOGY CERTIFICATES, SEE PAGES 3-4.							
Languages	52.325-011	Italian Cinema and Culture	M-Th	8:00-10:00 am	3	VCA	Mario Aste
	52.335-011	Cinema and Italian Americans	M-Th	10:15 am-12:15 pm	3	VCA	Mario Aste
	54.101-011	Beginning Spanish I	M-Th	8:00-10:00 am	3		J. Heli Hernandez
	54.101-012	Beginning Spanish I	M/W	7:00-10:00 pm	3		Margot Girodet
	54.211-011	Intermediate Conversational Spanish I	M-Th	10:15 am-12:15 pm	3	P: 54.102 or equivalent	J. Heli Hernandez
	54.211-012	Intermediate Conversational Spanish I CERTIFICATE IN SPANISH	TBA	7:00-10:00 pm	3	P: 54.102 or equivalent	Department Faculty
Legal Studies (See also Paralegal Studies)	41.262-011	Introduction to Business Law	T/Th	7:00-10:00 pm	3	BS, Collateral to Criminal Justice	William Burke
	41.363-011	Corporate and Property Law	T/Th	7:00-10:00 pm	3		Eugene Reardon
	41.367-011	Environmental Law	M/W	7:00-10:00 pm	3		William Burke
	41.376-011	Family Law	M/W	7:00-10:00 pm	3		Russell Karl
	41.497-011	Paralegal Practicum	TBA	TBA	3	P: Minimum of three paralegal courses and permission of Prof. William Burke, Coord., Legal Studies; call (978) 934-2765	William Burke
	CERTIFICATE IN PARALEGAL STUDIES						
Management	61.301-011	Business Finance	M/W	6:00-9:00 pm	3	P: 60.202, 49.201, 49.202, COM filter courses, BSBA majors or Business Minor/BSIT/ASIT with 54 + credits and College of Mgmt. Dean permission	Frank Andrews
	63.210-011	Operations Analysis Techniques	M/W	8:00-11:00 am	3	P: 49.211	M. Riaz Khan
	63.407-031	E-Business (5/19-7/11)	> Online Course		3	P: 63.403, and 63.405; BSBA/MIS concentration and College of Mgmt. Dean permission; req. proctored exams	Luvai Motiwalla
	66.301-031	Organizational Behavior (5/19-7/11)	> Online Course		3	P: COM filter courses, BSBA majors or Business minor/BSIT/ASIT with 54+ credits and College of Mgmt. Dean permission; req. proctored exams	Stuart Freedman
	66.490-011	Strategic Management	T/Th	9:00 am-Noon	3	P: Graduating seniors only; BSBA students and College of Mgmt. Dean permission	Ashwin Mehta
	69.253 Introduction to Management and Organizational Behavior is no longer offered. BSBA majors and BSIT/ASIT majors with the Business Minor will substitute 66.301 after 54+ credits.						
	NEW! 00.401-041	Security Management Seminar (Meets May 20 & 21st; Held at VA Medical Ctr in Bedford, MA; Tuition: \$775)	T/W	9:00 am-5:00 pm	NC	Noncredit; 1.5 CEUs awarded.	Allan Roscoe
	NEW! 00.601-041	Effective Business Writing (Meets June 4, 11, 18, 25 - Tuition: \$300)	Wed	7:00-9:00 pm	NC	Noncredit; .08 CEUs awarded.	Sharyn Gallagher
	NEW! 00.602-041	Fundamentals of Investing (Meets 1 Evening: May 29; Tuition: \$150)	Thurs	6:30-9:30pm	NC	Noncredit; .03 CEUs awarded	Frank Andrews
	NEW! 00.602-042	Fundamentals of Investing (Meets 1 Evening: June 17; Tuition: \$150)	Tues	6:30-9:30pm	NC	Noncredit; .03 CEUs awarded	Frank Andrews
	NEW! 00.604-041	Project Management Training (Meets June 10, 12, 17, 19, 24 & 26; Held at VA Medical Ctr in Bedford, MA; Tuition: \$695)	T/Th	6:00-10:00 pm	NC	Noncredit; 2.4 CEUs awarded.	Bernie Cookson
	Mathematics	90.111-011*	Fundamentals of Algebra	T/Th	7:00-10:00 pm	3	
92.111-011		Quantitative Reasoning (formerly Math Perspectives)	M-Th	10:15 am-12:15 pm	3	P: Two years of high school algebra; Liberal Arts majors only; no credit toward a degree in science or engineering; MA	Alan Kaplan
92.121-011**		Precalculus Mathematics	M-Th	8:00-10:00 am	3	P: 90.111 or equivalent; MA	Alan Kaplan
92.121-012**		Precalculus Mathematics	T/Th	6:30-9:30 pm	3	P: 90.111 or equivalent; MA	Candice Weston
92.121-031**		Precalculus Mathematics (5/19-8/15)	> Online Course		3	P: 90.111 or equivalent; MA; designed for students who can work independently in math; may require proctored exams	Alan Doerr
92.122-011		Management Calculus	M-Th	10:15 am-12:15 pm	3	P: 92.119 or 92.121 or equivalent; not for science or engineering majors; MA	Cindy Hill
92.122-012		Management Calculus	M/W	6:00-9:00 pm	3	P: 92.119 or 92.121 or equivalent; not for science or engineering majors; MA	Patricia Gifford
92.123-011		Precalculus Mathematics II	M/W	6:00-9:00 pm	3	P: 92.121; MA	Department Faculty
92.125-011		Calculus A	T/Th	6:00-9:00 pm	3	P: 92.123; MA	Robert Gravina
92.126-011		Calculus B	M/W	6:00-9:00 pm	3	P: 92.125; MA	Theresa Schille
92.127-021		Calculus IA (5/19-8/15)	M/W/F	8:00-10:00 am	4	MA	Candice Weston
92.127-022		Calculus IA (5/19-8/15)	M/W/F	8:00-10:00 am	4	MA	Department Faculty
92.131-021		Calculus I (5/19-8/15)	M/W/F	8:00-10:00 am	4	MA	John Lahoud
92.131-022		Calculus I (5/19-8/15)	M/W/F	10:15 am-12:15 pm	4	MA	John Lahoud
92.132-021		Calculus II (5/19-8/15)	M/W/F	8:00-10:00 am	4	P: 92.131; MA	Marvin Stick
92.132-022		Calculus II (5/19-8/15)	M/W/F	10:15 am-12:15 pm	4	P: 92.131; MA	Marvin Stick
92.183-011		Introduction to Statistics	M-Th	8:00-10:00 am	3	P: 90.111 or equivalent; MA	Alexander Olsen
92.183-012		Introduction to Statistics	T/Th	6:00-9:00 pm	3	P: 90.111 or equivalent; MA	Alexander Olsen
92.183-031		Introduction to Statistics (5/19-8/15)	> Online Course		3	P: 90.111 or equivalent; MA	Ann Marie Hurley
92.225-011		Calculus C	T/Th	6:00-9:00 pm	3	P: 92.126; MA	Philip Breen
92.231-011		Calculus III	M-F	10:15 am-12:15 pm	4		Vidhu Prasad
92.236-011		Differential Equations (previously 92.234)	M-Th	8:00-10:00 am	3	P: 90.112 or 92.121	Vidhu Prasad
92.236-012		Differential Equations (previously 92.234)	T/Th	6:00-9:00 pm	3	P: 90.112 or 92.121	Robert Johnson
92.321-011		Discrete Structures I	T/Th	3:15-6:15 pm	3	P: 90.112 or 92.121	Alan Doerr
92.321-031		Discrete Structures I (5/19-8/15)	> Online Course		3	P: 90.112 or 92.121; designed for students who can work independently in math; may require proctored exams	Alan Doerr
92.322-011		Discrete Structures II	M-Th	10:15 am-12:15 pm	3	P: 92.321	Alan Doerr
92.363-011		Introduction to Data Analysis	M-Th	10:15 am-12:15 pm	3	P: 92.183 or equivalent; MA	Alexander Olsen
92.386-011		Statistics for Engineering and Science	M/W	6:00-9:00 pm	3	P: Two semesters of calculus and one semester of programming	Chittur Venkatesh
92.407-011		Probability and Mathematical Statistics I	M/W	6:00-9:00 pm	3	P: 92.126 or 92.132 or equivalent	Chittur Venkatesh
92.419-031		Introduction to Mathematica® (5/19-8/15)	> Online Course		3	P: 2 semesters of Calculus and a prog. course; requires Mathematica® software	Kenneth Levasseur
92.421-011		Abstract Algebra I	M/W	6:00-9:00 pm	3	C: 96.103	Kenneth Levasseur

ACADEMIC CREDIT COURSE LISTING

	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
NEW!	92.435-011	History of Mathematics	T/Th	6:00-9:00 pm	3	P: Calculus	Joyce Williams
	92.488-021	Statistical Quality Control (5/19-8/15)	Wed	6:00-9:00 pm	3	P: 92.386 or equivalent	Shelley Rasmussen
	*Fundamentals of Algebra (90.111) is a preparatory course and cannot be credited toward a degree program at the University of Massachusetts Lowell.						
	**Students will not receive credit for both 90.112 and 92.121. For students in the Information Systems Program, 92.121 can be substituted for the combination of 90.112 and 90.119.						
University of Massachusetts Lowell Days students must have approval from their Department Chairperson before taking courses with a 90 prefix. Many 500-level courses are well within the grasp of upper level undergraduates and may be used as electives. Contact the Graduate School for course listings and admissions procedures.							
Mechanical Engineering	22.211-011	Statics (alternate 14.203)	M-Th	12:30-2:30 pm	3	P: 92.132, 95.141	M. G. Reardon
	22.212-011	Strength of Materials (alternate 14.204)	M-Th	8:00-10:00 am	3	P: 22.211, 22.302, 22.384	Faize Jamil
	22.403-011	Mechanical Engineering Laboratory II	T/Th	4:00-8:00 pm	3 (4)	P: 22.302, 22.311, 22.341, 22.381 and Department Chair permission	Glen Bousquet
Mechanical Engineering Technology	23.262-031	Engineering Data Analysis (5/19-8/15)	➤ Online Course		3	P: 92.126; requires MS Word and MS Excel or equivalent	Bradley Mingels
	CERTIFICATE IN COMPUTER ASSISTED MANUFACTURING (See page 4 for required courses.) CERTIFICATE IN MANUFACTURING TECHNOLOGY						
Multimedia Applications	(See courses listed under Information Technology.) CERTIFICATE IN MULTIMEDIA APPLICATIONS (See page 3 for required courses.)						
Music	71.102-011	Music Theory 2	M-Th	8:00-10:00 am	3	P: 71.101	Lisa Cleveland
	71.104-011	Aural Skills 2	M-Th	10:15-11:35 am	1 (2)	P: 71.103	Alan Williams
	71.110-011	Basic Music Theory	M-Th	10:15 am-12:15 pm	3	P: For non-Music majors only; AE	Thomas Stumpf
	71.201-011	Music Theory 3	M-Th	10:15 am-12:15 pm	3	P: 71.102	Lisa Cleveland
	71.203-011	Aural Skills 3	M-Th	8:00-9:20 am	1 (2)	P: 71.104	Alan Williams
	74.386-011	History of Rock Music	M-Th	10:15 am-12:15 pm	3	AE	Richard Strasser
	77.499-021	Music Business Internship (5/19-8/15)	TBA	TBA	6	P: Permission of Chair	Richard Strasser
	78.493-021	Internship in Sound Recording Technology (5/19-8/15)	TBA	TBA	6	P: Permission of Chair	William Moylan
Paralegal Studies (See also Criminal Justice and Legal Studies)	41.363-011	Corporate and Property Law	T/Th	7:00-10:00 pm	3	P: Minimum of three paralegal courses and permission of Prof. William Burke, Coordinator, Legal Studies; call (978) 934-2765	Eugene Reardon
	41.376-011	Family Law	M/W	7:00-10:00 pm	3		Russell Karl
	41.497-011	Paralegal Practicum	TBA	TBA	3		William Burke
	CERTIFICATE IN PARALEGAL STUDIES						
Philosophy	45.201-011	Introduction to Philosophy	T/Th	6:00-9:00 pm	3	VC, AHE	Donald LeBlanc
	45.201-031	Introduction to Philosophy (5/19-8/15)	➤ Online Course		3	VC, AHE; requires proctored exams	Donald LeBlanc
	45.202-011	Introduction to Logic	T/Th	7:00-10:00 pm	3	VC, AHE	Joseph Shay
	45.203-011	Introduction to Ethics	M/W	7:00-10:00 pm	3	VC, AHDE	Holly Parker
	CERTIFICATE IN CONTEMPORARY COMMUNICATIONS (See page 4 for required courses.)						
Physics	95.103-011	General Physics I	M-Th	8:00-10:00 am	3	C: 96.103; SL	Arthur Mittler
	95.141-011	Physics I	M-F	8:00-10:00 am	3 (4)	C: 92.131, 96.141; SL	F. Raymond Hardy
	95.144-011	Physics II	M-F	8:00-10:00 am	3 (4)	P: 95.141. C: 92.132, 96.144; SL	Roger McLeod
	96.103-011	Experimental General Physics I (2 days/week)	T/Th	2:45-5:45 pm	1 (2)	C: 95.103 or 95.201; SL	Arthur Mittler
	96.141-011	Experimental Physics I (2 days/week)	M/W	2:45-5:45 pm	1 (2)	C: 95.141; SL	F. Raymond Hardy
	96.144-011	Experimental Physics II (2 days/week)	T/Th	2:45-5:45 pm	1 (2)	P: 96.141. C: 95.144; SL	Department Faculty
	99.101-011	Radiation and Life	M/W	6:00-9:00 pm	3	C: 99.102; SL	Anthony Stevens
	99.102-011	Radiation and Life Lab	M/W	3:30-5:30 pm	1 (2)	C: 99.101; SL	Anthony Stevens
Plastics	27.451-011	Selected Topics I	M/W	7:00-10:00 pm	3	P: Coordinator permission	Department Faculty
	27.453-011	Selected Topics III	T/Th	7:00-10:00 pm	3	P: Coordinator permission	Department Faculty
	Note: Courses with the 27 prefix are not eligible for graduate credit. CERTIFICATE IN PLASTICS ENGINEERING TECHNOLOGY						
Political Science	46.101-011	Introduction to American Politics	M/W	7:00-10:00 pm	3	BS	Francis Talty
	46.112-011	Introduction to Comparative Political Systems	M/W	7:00-10:00 pm	3	BS	Tracy LaFauci
	46.121-011	Introduction to International Relations	M-Th	12:30-2:30 pm	3	BS	Dean Bergeron
	46.230-011	Law and the Legal System	T/Th	7:00-10:00 pm	3	BS	P. Sullivan Talty
	46.348-031	Literature, Politics and Genocide in Cambodia (5/19-8/15)	➤ Online Course		3		George Chigas
	46.368-012	Middle East Politics	M-Th	10:15 am-12:15 pm	3	BS	Dean Bergeron
Psychology	47.101-011	General Psychology	T/Th	7:00-10:00 pm	3	BS	Alexandria Weida
	47.101-031	General Psychology (5/19-8/15)	➤ Online Course		3	BS	M. Stanford-Pollock
	47.209-011	Social Psychology	M/W	7:00-10:00 pm	3	BSV	Kristen Pepe
	47.232-031	Psychology of Personality (5/19-8/15)	➤ Online Course		3	BS; requires MS Word	Joan Cannon
	47.260-011	Human Development I	M/W	6:00-9:00 pm	3	BS	Ann MacGibbon
	47.272-011	Abnormal Psychology	T/Th	6:00-9:00 pm	3	P: 47.101; BS	Gail Birkhead
	47.312-031	Learning and Behavior (5/19-8/15)	➤ Online Course		3	P: 47.101; BS	Charlotte Mandell
	47.328-011	Dynamics of Interpersonal Relations	M/W	6:00-9:00 pm	3	P: 47.101; BS	Noel Cartwright
	47.351-031	Human Sexuality (5/19-8/15)	➤ Online Course		3	P: 47.101; BS	Mary Duell
	47.361-011	Problem and Issues in Childhood and Adolescence	T/Th	7:00-10:00 pm	3	P: 47.101, 47.260	Department Faculty
	47.373-011	Brain, Mind and Behavior	M-Th	8:00-10:00 am	3	P: 47.101	Mary Duell
	47.475-011	Seminar: Clinical Psychology	T/Th	2:45-5:45 pm	3	P: 47.232 or 47.272 or instructor permission	Peter Hantzis
	47.477-031	Seminar: Contemporary Trends-Addictions (5/19-8/15)	➤ Online Course		3	P: 47.101; other prerequisites may be specified by the instructor	Richard Siegel
	Regional Economic and Social Development	57.475-011	Community Conflict Resolution	T/Th	6:30-9:30 pm	3	
Sociology	48.101-011	Introduction to Sociology	M/W	7:00-10:00 pm	3	BS	Levon Chorbajian
	48.255-011	Social Deviance	T/Th	7:00-10:00 pm	3	P: 48.101	Chris Cass
	48.260-011	Sociology of Mass Media	M-Th	8:00-10:00 am	3	P: 48.101; Human Values, BSV	Levon Chorbajian
	48.319-011	The Sixties	T/Th	7:00-10:00 pm	3	P: 48.101	Jack Porter
	48.351-031	Sociology of Health and Health Care (5/19-8/15)	➤ Online Course		3	P: 48.101	John Ost
Technical Writing	42.403-021	Advanced Software Writing (5/19-8/15)	Tues	6:00-9:00 pm	3	P: 42.402	Stephen Murphy
CERTIFICATE IN TECHNICAL WRITING Technical Writing courses are open to undergraduate and graduate students.							
Water/Wastewater Option	(See courses under Civil Engineering Technology: Water/Wastewater Option) CERTIFICATE IN WASTEWATER TREATMENT CERTIFICATE IN WATER TREATMENT						
Website Design and Development	(See courses under Art and Information Technology.) CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)						

July 7–August 15
Summer Session II

Day Classes begin on July 7 and meet Monday through Thursday for 3-credit courses and meet Monday through Friday for 4-credit courses.
M/W Evening Classes begin on July 7 and include 2 FRIDAYS: July 18 and August 1 at the regularly scheduled hours.
T/Th Evening Classes begin on July 8 and include 2 FRIDAYS: July 25 and August 8 at the regularly scheduled hours.

Reminder: This course listing combines the University of Massachusetts Lowell day school courses and the continuing studies courses. It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
Accounting	60.202-021	Accounting/Managerial	T/Th	6:00-9:00 pm	3	P: 60.201	Lisa Andrusaitis
	60.331-021	Cost Management Systems	T/Th	6:00-9:00 pm	3	P: 60.202, BSBA students (non-Accounting majors) and College of Management Dean permission	Jeffrey Mead
	CERTIFICATE IN ACCOUNTING						
Art/Computer Graphics	70.379-021	Website Design: Dreamweaver/Windows	T/Th	7:00-10:00 pm	3	P: 90.238, and 90.231 or 70.262	Chris Perry
	70.384-021	Advanced Website Design and Development/Windows	M/W	7:00-10:00 pm	3	P: 90.238 and 70.379	Jay Kamins
	NOTE: While the above courses will not directly transfer into the Art Department's Bachelor of Fine Arts Day School degree program, certain two-course clusters may be accepted for transfer upon prior department approval. CERTIFICATE IN GRAPHIC DESIGN AND DIGITAL IMAGING (See page 3 for required courses.) CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)						
Art History	58.494-021	Directed Studies	TBA	TBA	3	P: Art History Coordinator permission	Liana Cheney
	58.496-021	Practicum in Art History	TBA	TBA	3	P: Art History Coordinator permission	Liana Cheney
Chemistry	84.112-021	General Chemistry II	M-Th	10:15 am-12:15 pm	3	P: 84.111 or permission of instructor; C: 84.114; SL	Judith Goldsberry
	84.114-021	General Chemistry II Lab	M/W/Th	2:45-5:45 pm	1 (3)	P: 84.113 or permission of instructor; C: 84.112; SL	Athena Letsou
	84.122-021	Chemistry II	M/W	7:00-10:00 pm	3	P: 84.121 and 84.123. C: 84.124; SL.	Judith Goldsberry
	84.124-021	Chemistry Lab II	T/Th	7:00-10:00 pm	1 (3)	P: 84.123; C: 84.122; SL	Paul Damour
	84.222-021	Organic Chemistry II	M//T/Th	2:45-5:45 pm	3	P: 84.221. C: 84.230; SL	Gene Davis
	84.222-022	Organic Chemistry II	T/Th	7:00-10:00 pm	3	P: 84.221. C: 84.230; SL	Gene Davis
	84.230-021	Organic Chemistry Lab II A	T/Th	6:00-10:00 pm	1 (4)	P: 84.229; C: 84.222; SL	Judith Freeman
Cinema	52.374-021	Classics of Italian Cinema	M-Th	10:15 am-12:15 pm	3	VCA	Mario Aste
	52.380-021	Italian Cinema: Directors and Themes	M-Th	8:00-10:00 am	3	VCA	Mario Aste
Civil and Environmental Engineering	14.205-021	Dynamics (alternate 22.213)	M/W	7:00-10:00 pm	3	P: 14.203, 92.132	Faize Jamil
Civil Engineering Technology	CERTIFICATE IN ENVIRONMENTAL TECHNOLOGY CERTIFICATE IN HAZARDOUS WASTE MANAGEMENT CERTIFICATE IN LAND SURVEYING						
Civil Engineering Technology: Water/ Wastewater Option	15.132-021	Environmental Chemistry II	M/W	7:00-10:00 pm	3	P: 86.131; SL	Charles Panagiotakos
Client/Server Technology	(See courses listed under Information Technology)						
	CERTIFICATE IN CLIENT/SERVER DATABASE DESIGN AND ADMINISTRATION (See page 4 for required courses.)						
Computer Mathematics	(See courses listed under Information Technology.)						
Computer Science	91.113-021	Exploring the Internet	M/W	6:00-9:00 pm	3	Non-CS Majors only	Peter Weston
Criminal Justice (See also Legal Studies and Paralegal Studies	44.201-021	Computer Applications in Criminal Justice	M-Th	10:15 am-12:15 pm	3		Department Faculty
	44.221-021	Criminology	T/Th	6:00-9:00 pm	3		Claire Murphy
	44.261-021	Juvenile Delinquency	M/W	6:00-9:00 pm	3		Steven Sacco
	44.390-021	Research Methods	M/W	7:00-10:00 pm	3	P: 44.101 or instructor permission	Kerry Curtis
	44.496-021	Practicum	TBA	TBA	3	P: Instructor permission	Allan Roscoe
Economics	49.201-021	Economics I (Microeconomics)	M-Th	8:00-10:00 am	3	P: 90.111; BS	Ronald Hemenway
	49.201-022	Economics I (Microeconomics)	T/Th	6:00-9:00 pm	3	P: 90.111; BS	Ronald Olive
	49.202-021	Economics II (Macroeconomics)	M/W	7:00-10:00 pm	3	P: 90.111; BS	Patricia Machado
	49.211-021	Statistics I	M/W	6:00-9:00 pm	3	P: 92.122 or equivalent	Harjeet Khosla
Electrical and Computer Engineering	16.312-021	Electronics II Lab	M/W	4:00-7:00 pm	2 (3)	P: 16.311; C 16.366	Alan Rux
	16.312-022	Electronics II Lab	M/W	7:00-10:00 pm	2 (3)	P: 16.311; C 16.366	Alan Rux
	16.360-021	Electromagnetic Theory I	T/Th	7:00-10:00 pm	3	P: 16.202 92.236	Brita Dean
	16.362-021	Signals and Systems I	T/Th	2:00-5:00 pm	3	P: 16.202 92.236	Mufeed Mah'd
	16.366-021	Electronics II	T/Th	9:00 am-Noon	3	P: 16.365; C 16.312	Mufeed Mah'd
	16.412-021	Directed Studies	TBA	TBA	3	P: Instructor permission	Ziyad Salameh
	16.491-021	Industrial Experience	TBA	TBA	3	P: Permission by Alan Rux	Alan Rux
	16.492-021	Industrial Experience	TBA	TBA	3	P: Permission by Alan Rux	Alan Rux
Electronic Engineering Technology	CERTIFICATE IN COMPUTER ENGINEERING TECHNOLOGY CERTIFICATE IN ELECTRONICS TECHNOLOGY CERTIFICATE IN ELECTRO-OPTICS TECHNOLOGY						
English	42.101-021	College Writing I	M/W	7:00-10:00 pm	3		Mary Hojnacki
	42.102-021*	College Writing II	M-Th	10:15 am-12:15 pm	3	P: 42.101	Kim Komperda
	42.102-022*	College Writing II	T/Th	7:00-10:00 pm	3	P: 42.101	Stephen Lucasi
	42.104-021*	College Writing II for International Students	M/W	7:00-10:00 pm	3	P: 42.103; English composition requirement	Rita Naughton
	42.212-021	The Short Story	M-Th	8:00-10:00 am	3	P: 42.102; LT	Dina Bozicas
	42.217-021	The Horror Story	T/Th	7:00-10:00 pm	3	P: 42.102; LT	Henry Venuti
	42.224-021**	Business Writing	M/W	6:00-9:00 pm	3	P: 42.102	Jeffrey Evangelista
	42.232-021	Turning Fiction Into Film	M-Th	10:15 am-12:15 pm	3	P: 42.102; LT	Department Faculty

ACADEMIC CREDIT COURSE LISTING

	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
	42.295-021	History of American Literature II	M/W	7:00-10:00 pm	3	P: 42.102; LT	Henry Venuti
	42.304-021	Creative Writing: Screenwriting	M/W	7:00-10:00 pm	3	P: 42.102	Richard Farrell
	*Students will not receive credit for both 42.102 and 42.104. **Students may not receive credit for both 42.224 and 42.226 CERTIFICATE IN TECHNICAL WRITING						
Graphic Design and Digital Imaging	(See courses listed under Art and Information Technology.) CERTIFICATE IN GRAPHIC DESIGN AND DIGITAL IMAGING (See page 3 for required courses.)						
Health Professions	30.305-021	Exercise Physiology Lecture	M-F	8:00-10:00 am	4	P: Anatomy and Physiology, Chemistry; not open to UMass Lowell Exercise Physiology majors; SL	Sean Collins
	30.306-021	Introduction to Gerontology	M-Th	10:15 am-12:15 pm	3	BS	Judith Conahan
	30.307-021	Exercise Physiology Lab	M/W/Th	10:15 am-12:15 pm	3	P: Anatomy and Physiology, Chemistry; not open to UMass Lowell Exercise Physiology majors; SL	Sean Collins
	35.102-021	Human Anatomy and Physiology II	T/Th	6:15-9:15 pm	3	P: 35.101, 35.103 (or equivalent); C: 35.104; SL	Paul Fierimonte
	35.104-021	Human Anatomy & Physiology II Lab	T/W/Th	2:00-5:00 pm	1 (3)	P: 35.101, 35.103; C: 35.102; SL	Alease Bruce
	CERTIFICATE IN NUTRITION						
History (See also Art History)	43.106-021	The Modern World	T/Th	6:00-9:00 pm	3	HS	Janet Rider
	43.112-021	U.S. History Since 1877	M/W	7:00-10:00 pm	3	HS	Diane Lewis
	43.216-021	American Environmental History	M-Th	8:00-10:00 am	3	HS	Chad Montrie
	43.314-021	U.S. Social History Since 1880	T/Th	7:00-10:00 pm	3	HS	Robert Lemire
	43.350-021	Colonial America: History and Culture	M/W	6:30-9:30 pm	3	HS	Harry Hubbard
Information Technology	78.201-021	Introduction to Audio for Multimedia and the Web — Featuring Sound Forge® 6.0/Windows	T/Th	7:00-10:00 pm	3	P: Intro to Multitmedia or HTML	Alex Case recommended
	90.160-021	Introduction to Information Systems	T/Th	6:00-9:00 pm	3		Christopher Gambon
	90.202-021	Introduction to PCs & MS Office	M/W	6:00-9:00 pm	3		Edward Mowrey
	90.211-021*	Introduction to Programming with C - Part I	M/W	7:00-10:00 pm	3	No previous prog. experience required	Helen Wang
	90.212-021*	Introduction to Programming with C - Part II	T/Th	7:00-10:00 pm	3	P: 90.211	Fuquan Gao
	90.220-021	Visual Basic	T/Th	7:00-10:00 pm	3		Leo Javis
	90.267-021*	C Programming	M/W	6:00-9:00 pm	3	P: Previous programming experience	Lee Clark
	90.267-022*	C Programming	T/Th	6:00-9:00 pm	3	P: Previous programming experience	Nancy Kiernan
	90.267-023*	C Programming	T/Th	7:00-10:00 pm	3	P: Previous programming experience	Joseph Russell
	90.268-021	C++ Programming	M/W	7:00-10:00 pm	3	P: 90.267 or 90.212	James Brzowski
	90.271-021	C# (C Sharp)	T/Th	7:00-10:00 pm	3	P: 90.268 or 90.301	James Brzowski
	90.291-021	Introduction to DHTML	M/W	6:30-9:30 pm	3		Chris Belknap
	90.297-021	Introduction to Java Programming	T/Th	6:00-9:00 pm	3	P: Previous prog. experience required	Peter Weston
	90.301-021	Java Programming/Windows	M/W	7:00-10:00 pm	3	P: 90.297 or 90.268	Elizabeth Carbone
	90.302-021	Javascript	M/W	6:00-9:00 pm	3	P: 90.291 or knowledge of DHTML	Dae Cho
	90.305-021	Introduction to Perl	M/W	7:00-10:00 pm	3	P: 90.267	Jonathan Worthley
	90.312-021	UNIX Shell Programming	M/W	7:00-10:00 pm	3	P: 90.311, and 90.267 or 90.212	Michael Richards
	90.313-021	UNIX Internals	M/W	7:00-10:00 pm	3	P: 90.312	Partha Mittra
	90.443-021	Fundamentals of Client/Server Computing	M/W	6:00-9:00 pm	3		Umesh Bhargava
	90.461-021	LAN/WAN	M/W	7:00-10:00 pm	3	P: 90.267 or previous prog. experience	Krishnajeet Putcha
	90.462-021	TCP/IP and Network Architecture	T/Th	6:00-9:00 pm	3	P: 90.461	Arvind Kukreja
	90.463-021	Advanced Networking Technologies	M/W	7:00-10:00 pm	3	P: 90.461	S. Vijayarangam
	90.474-021	Relational Database Concepts	T/Th	6:00-9:00 pm	3	P: 90.267	Umesh Bhargava
	*Students will not receive credit for both 90.267 and the 90.211/90.212 sequence. CERTIFICATE IN CLIENT/SERVER DATABASE DESIGN AND ADMINISTRATION (See page 4 for required courses.) CERTIFICATE IN CONTEMPORARY COMMUNICATIONS (See page 4 for required courses.) CERTIFICATE IN DATA/TELECOMMUNICATIONS (See page 4 for required courses.) CERTIFICATE IN FUNDAMENTALS OF INFORMATION TECHNOLOGY (See page 3 for required courses.) CERTIFICATE IN INTRANET DEVELOPMENT (See page 4 for required courses.) CERTIFICATE IN MULTIMEDIA APPLICATIONS (See page 3 for required courses.) CERTIFICATE IN UNIX (See page 4 for required courses.) CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)						
Languages	52.374-021	Classics of Italian Cinema	M-Th	10:15 am-12:15 pm	3	VC	Mario Aste
	52.380-021	Italian Cinema: Directors and Themes	M-Th	8:00-10:00 am	3	VCA	Mario Aste
	54.102-021	Beginning Spanish II	M-Th	8:00-10:00 am	3	P: 54.101 or equivalent	J. Heli Hernandez
	54.102-022	Beginning Spanish II	M/W	7:00-10:00 pm	3	P: 54.101 or equivalent	Kimberly Vitchkoski
	54.212-021	Intermediate Conversational Spanish II	M-Th	10:15 am-12:15 pm	3	P: 54.211 or equivalent	J. Heli Hernandez
	54.212-022	Intermediate Conversational Spanish II	TBA	7:00-10:00 pm	3	P: 54.211 or equivalent	Department Faculty
	CERTIFICATE IN SPANISH						
Legal Studies (See also Criminal Justice and Paralegal Studies)	41.370-021	Real Estate Law	M/W	7:00-10:00 pm	3		J. Alan Roberts
	41.376-021	Family Law	T/Th	7:00-10:00 pm	3		Ellen Curran
	41.381-021	Women and the Law	M/W	7:00-10:00 pm	3		Nancy Dick
	41.387-021	Legal Research Methods	T/Th	7:00-10:00 pm	3		Nancy Dick
	CERTIFICATE IN PARALEGAL STUDIES						
Management	61.300-021	Investments	M/W	6:00-9:00 pm	3	P: COM Filter courses, Junior standing and College of Mgmt. Dean permission	Frank Andrews
	63.301-031	Management Information Systems (7/7-8/15)	Online Course		3	P: BSBA students or Business Minor/BSIT/ASIT students with 54+ credits, COM Filter courses and College of Mgmt. Dean permission; requires proctored exams	David Lewis
Mathematics	90.111-021*	Fundamentals of Algebra	M/W	7:00-10:00 pm	3		Eugene Welch, Jr.
	92.121-021**	Precalculus Mathematics	M-Th	8:00-10:00 am	3	P: 90.111 or equivalent; MA	Alan Kaplan
	92.121-022**	Precalculus Mathematics	M/W	6:30-9:30 pm	3	P: 90.111 or equivalent; MA	Candice Weston
	92.122-021	Management Calculus	M-Th	10:15 am-12:15 pm	3	P: 92.119 or 92.121 or equivalent; not for science or engineering majors; MA	Alexander Olsen
	92.123-021	Precalculus Mathematics II	T/Th	7:00-10:00 pm	3	P: 92.121; MA	Terence Watterson
	92.125-021	Calculus A	T/Th	7:00-10:00 pm	3	P: 92.123; MA	Department Faculty
	92.126-021	Calculus B	M/W	7:00-10:00 pm	3	P: 92.125; MA	Theresa Schille
	92.183-021	Introduction to Statistics	M-Th	8:00-10:00 am	3	P: 90.111 or equivalent; MA	Alexander Olsen
	92.183-022	Introduction to Statistics	M/W	7:00-10:00 pm	3	P: 90.111 or equivalent; MA	Alexander Olsen
	92.231-021	Calculus III	M-F	10:15 am-12:15 pm	4	P: 92.132; MA	Ronald Brent
	92.321-021	Discrete Structures I	M/W	6:00-9:00 pm	3	P: 90.112 or 92.121	Anthony Penta
	92.386-021	Statistics for Science and Engineering	M/W	6:00-9:00 pm	3	P: 92.225 or 92.132	Department Faculty
	92.427-021	Geometry	M/W	2:00-5:00 pm	3	P: 92.221 or 92.321; TI 92 required	Marvin Stick
	92.450-021	Mathematical Modeling	T/Th	6:00-9:00 pm	3	P: 92.234	James Graham-Eagle
NEW!	92.486-021	Statistical Programming Using SAS	T/Th	6:00-9:00 pm	3	P: 92.386 or equivalent	Rebecca Gore
	*Fundamentals of Algebra (90.111) is a preparatory course and cannot be credited toward a degree program at the University of Massachusetts Lowell. **Students will not receive credit for both 90.112 and 92.121. For students in the Information Systems Program, 92.121 can be substituted for the combination of 90.112 and 90.119. University of Massachusetts Lowell day students must have approval from their Department Chairperson before taking courses with a 90 prefix. Many 500-level courses are well within the grasp of upper level undergraduates and may be used as electives. Contact the Graduate School for course listings and admissions procedures.						

ACADEMIC CREDIT COURSE LISTING

	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
Mechanical Engineering	22.213-021	Dynamics (alternate 14.205)	M/W	7:00-10:00 pm	3	P: 22.211	Faize Jamil
Mechanical Engineering Technology	CERTIFICATE IN COMPUTER ASSISTED MANUFACTURING (See page 5 for required courses.) CERTIFICATE IN MANUFACTURING TECHNOLOGY						
Multimedia Applications	(See courses listed under Information Technology.) CERTIFICATE IN MULTIMEDIA APPLICATIONS (See page 3 for required courses.)						
Music	71.110-021	Basic Music Theory	M-Th	8:00-10:00 am	3	For Non-Music Majors only; AE	Lisa Cleveland
	71.202-021	Music Theory 4	M-Th	10:15 am-12:15 pm	3	P: 71.201	Lisa Cleveland
	NEW! 71.204-021	Aural Skills 4	M-Th	12:30-1:50 pm	1 (2)	P: 71.203	Alan Williams
	NEW! 78.201-021	Introduction to Audio for Multitmedia and the Web — Featuring Sound Forge® 6.0/Windows	T/Th	7:00-10:00 pm	3	P: Intro to Multimedia or HTML recommended	Alex Case
	78.301-021	Music, Technology and Society	M-Th	10:15 am-12:15 pm	3	AH	Alan Williams
Paralegal Studies (See also Criminal Justice and Legal Studies)	41.370-021	Real Estate Law	M/W	7:00-10:00 pm	3		J. Alan Roberts
	41.387-021	Legal Research Methods	T/Th	7:00-10:00 pm	3		Nancy Dick
	CERTIFICATE IN PARALEGAL STUDIES						
Philosophy	45.201-022	Introduction to Philosophy	M/W	7:00-10:00 pm	3	VC	Joseph Shay
	45.203-021	Introduction to Ethics	T/Th	7:00-10:00 pm	3	VC	Joseph Shay
	CERTIFICATE IN CONTEMPORARY COMMUNICATIONS						
Physics	95.104-021	General Physics II	M-Th	8:00-10:00 am	3	P: 95.103; C: 96.104; SL	Department Faculty
	95.141-021	Physics I	M-F	10:15 am-12:15 pm	3 (4)	C: 92.131; 96.141; SL	Edward Salesky
	95.144-021	Physics II	M-F	10:15 am-12:15 pm	3 (4)	P: 95.141; C: 92.132, 96.144; SL	Kunnat Sebastian
	96.104-021	Experimental General Physics II (2 days per week)	T/Th	2:45-5:45 pm	1 (2)	P: 96.103; C: 95.104 or 95.202; SL	Department Faculty
	96.141-021	Experimental Physics I	M/W	2:45-5:45 pm	1 (2)	C: 95;141; SL	Department Faculty
	96.144-021	Experimental Physics II (2 days per week)	T/Th	2:45-5:45 pm	1 (2)	P: 96.141; C: 95.144; SL	Department Faculty
	99.101-021	Radiation and Life	M/W	6:00-9:00 pm	3	C: 99.102; SL	Anthony Stevens
	99.102-021	Radiation and Life Lab	M/W	3:30-5:30 pm	1 (2)	P: or C: 99.101; SL	Anthony Stevens
Plastics	27.452-021	Selected Topics II	M/W	7:00-10:00 pm	3	P: Coordinator permission	Department Faculty
	27.454-021	Selected Topics IV	T/Th	7:00-10:00 pm	3	P: Coordinator permission	Department Faculty
	NOTE: Courses with the 27 prefix are not eligible for graduate credit. CERTIFICATE IN PLASTICS ENGINEERING TECHNOLOGY						
Political Science	46.110-021	Introduction to Politics	M/W	7:00-10:00 pm	3	BS	Department Faculty
Psychology	47.101-021	General Psychology	M/W	7:00-10:00 pm	3	BS	Department Faculty
	47.276-021	Theories of Learning	M-Th	10:15 am-12:15 pm	3	P: 47.101; BS	Sam Hantzis
	47.335-021	Psychology and Women	T/Th	6:00-9:00 pm	3	BSV	Department Faculty
Sociology	48.101-021	Introduction to Sociology	M-Th	8:00-10:00 am	3	BS	Levon Chorbajian
	NEW! 48.276-021	Sociology of the Gun	T/Th	7:00-10:00 pm	3	P: 48.101	Chris Cass
	48.321-021	Social Theory I	T/Th	7:00-10:00 pm	3	P: 48.101	Jack Porter
	48.340-021	Sociology of Sports	M/W	7:00-10:00 pm	3	P: 48.101	Levon Chorbajian
Technical Writing	Technical Writing courses are open to undergraduate and graduate students. CERTIFICATE IN TECHNICAL WRITING						
Water/Wastewater Option	(See courses under Civil Engineering Technology: Water/Wastewater Option.) CERTIFICATE IN WASTEWATER TREATMENT CERTIFICATE IN WATER TREATMENT						
Website Design and Development	(See courses under Art and Information Technology.) CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)						

note:

Day students in the Class of 2004 and subsequent classes — Please visit our Website at <http://continuinged.uml.edu> to see if the course you are registering for fulfills the General Education 2000 Requirements.

INTRODUCING

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SATELLITE CENTER
SUMMER 2003 COURSES
Held at Bedford, MA V.A. Medical Center

NEW!

Wireless Communications
T/Th: 6:00-9:00 pm
Summer Session I: May 19–June 27
Krishnajee Putcha
90.483-041
3 credits

NEW!

Project Management Training Program*
T/Th: 6:00–10:00 pm
Meets June 10, 12, 17, 19, 24, 26
Bernie Cookson
00.604-041
Noncredit-2.4 CEUs awarded
Price: \$695.00

NEW!

Security Management Seminar*
9:00 am–5:00 pm
May 20 and 21
Allan Roscoe
00.401-041
Noncredit – 1.5 CEUs awarded
Price: \$775.00

*For a detailed brochure on our noncredit Signature Seminars, please call (978) 934-2495.

COMING SOON

Security Guard Apprentice Program

UMass Lowell's Center for Security, Safety & Society is developing an innovative apprenticeship-training program for private security guards. This training program provides career-oriented security workers with professional training opportunities that will help them carve out a career as a Security Specialist. The program is also for private security companies who understand the need to develop a first class, skilled security workforce that can meet the challenges and new requirements of today's environment. Curriculum and program details will be announced in the next newsletter.

To learn more about the program, contact Jennifer Gaudet at the Center for Security, Safety & Society: 978-934-2747 or Jennifer_Gaudet@uml.edu.

GRADUATE COURSE LISTING

Graduate Courses
Summer Session I

Except as noted: Day classes begin on May 19.
M/W Evening Classes begin on May 19 and include 3 FRIDAYS: May 19, June 13, and June 27 at the regularly scheduled hours.
T/Th Evening Classes begin on May 20 and include 2 FRIDAYS: June 6 and June 20 at the regularly scheduled hours.

Reminder: It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
Business Administration	60.501-031	Financial Accounting (5/19-7/11) (includes week of Fourth of July)	➤ Online Course		2	P: MBA Program or permission of MBA Director; req. proctored exams	Charles Feeney
	60.730-011	Federal Taxation (5/19-6/18)	M/W	6:00-10:00 pm	3	P: MBA Foundation Core or permission of MBA Director	Charles Feeney
	61.501-031	Business Finance (5/19-7/11) (includes week of Fourth of July)	➤ Online Course		2	P: 60.501; MBA Program or permission of MBA Director; requires proctored exams	Yash Puri
	61.691-031	International Finance (5/19-7/11) (includes week of Fourth of July)	➤ Online Course		3	P: MBA Foundation Core or permission of MBA Director	Yash Puri
	63.501-031	Operations Fundamentals (5/19-7/11) (includes week of Fourth of July)	➤ Online Course		2	P: MBA Program or permission of MBA Director; requires proctored exams	Riaz Khan
	63.601-031	Management Information Systems (5/19-7/11) (Includes week of Fourth of July)	➤ Online Course		3	P: MBA Foundation Core or permission of MBA Director; req. on-campus presentations and may require proctored exams	Luvai Motiwalla
	63.651-011	Integrated Logistics–Supply Chain Management (5/19-6/27)	T/Th	6:00-9:00 pm	3	P: 64.601; MBA Foundation Core or permission of MBA Director	Joyce Mehring
	66.501-031	Organizational Behavior (5/19-7/11) (includes week of Fourth of July)	➤ Online Course		2	P: MBA Program or permission of MBA Director	Stuart Freedman
	66.725-011	Negotiations (5/19-6/18)	M/W	6:00-10:00 pm	3	P: MBA Foundation Core or perm. of MBA Director	Timm Kainen
Computer Science	91.515-021	Operating Systems (5/19-8/22)	TBA	TBA	3		Department Faculty Department Faculty
	91.540-021	Topics in Languages and Compilation (5/19-8/22)	TBA	TBA	3		
Criminal Justice	44.521-291	Criminological Theory (Held at Suffolk County Jail, Boston)	M/W	5:00-8:00 pm	3		Ronald Corbett
	44.526-031	Hate Crimes (5/19-8/15)	➤ Online Course		3	Requires MS Word	Allan Roscoe
	44.543-031	Forensic Psychology (5/19-8/15)	➤ Online Course		3		Alexandria Weida
	44.563-031	Substance Abuse and The Criminal Justice System (5/19-8/15)	➤ Online Course		3		David Orrick
	44.622-031	Family Violence (5/19-8/15)	➤ Online Course		3		Eve Buzawa
	44.624-011	Violence in America	T/Th	5:00-8:00 pm	3		James Byrne
	44.680-011	Special Topics: Institutional Corrections	T/Th	5:00-8:00 pm	3		Carol Higgins
Education	01.625-031	Organization of Schools and School Systems (5/19-8/15)	➤ Online Course		3		William Phelan
	04.636-031	Theory and Research in Curriculum (5/19-8/15)	➤ Online Course		3		Phyllis Gimbel
	05.623-031	School Law (5/19-8/15)	➤ Online Course		3		Patricia Anthony
	05.642-031	Principles of Supervision (5/19-8/15)	➤ Online Course		3		Robert Gower
	07.642-031	Program Evaluation (5/19-8/15)	➤ Online Course		3		B. Jochums-Slez
Electrical and Computer Engineering	16.528-011	Alternate Energy Sources (5/19-6/27)	M/W	6:00-9:00 pm	3	P: Instructor permission	Ziyad Salameh
	16.529-011	Electric Vehicle Technology (5/19-6/27)	T/Th	6:00-9:00 pm	3	P: Instructor permission	Ziyad Salameh
	16.553-021*	Software Engineering (5/19-7/22)	T/Th	6:00-8:00 pm	3	P: 16.216, 16.322	Marc Bumble
	16.558-011	World Wide Web Programming (5/19-6/27)	M/W	6:00-9:00 pm	3	P: Prog. skills and instructor permission	Dalila Megherbi
	16.574-021*	Advanced Logic Design (5/19-7/22)	M/W	6:00-8:00 pm	3	P: 16.265	Anh Tran
	16.584-021*	Probability and Random Processes (5/19-7/22)	T/Th	6:00-8:00 pm	3	P: 16.362	Lee Jones
	*Note: The above asterisked courses are held from May 19-July 22. M/W courses begin May 19 with the final exam on July 21. T/Th courses begin May 20 with the final exam on July 22.						
Health Professions	32.604-031	Health Data Analysis (5/19-8/15)	➤ Online Course		3	P: Elementary statistics; req. SPSS Student Version 11.0 for Windows	Beverly Volicer
	34.650-021	Clinical Education Experience I (5/19-7/11)	M-F	8:00 am-4:00 pm	3 (4)	P: First-year Physical Therapy grad. students only	Department Faculty
	34.652-021	Clinical Education Experience II (6/30-8/22)	M-F	8:00 am-4:00 pm	3 (4)	P: Clinical Education Experience I, second-year Physical Therapy grad. students only	Department Faculty
	34.701-011	Non-Credit Portfolio Assessment for Transitional Doctorate in Physical Therapy (tDPT)	Non-Credit Course				Department Faculty
	NEW! 34.702-031	Clinical Reasoning in Physical Therapy (5/19-8/15)	➤ Online Course		3	P: Admittance into tDPT; req. MS Word	Constance Seymour
	34.704-031	Healthcare Issues: Impact on Clinical Practice (5/19-8/15)	➤ Online Course		3	P: Admittance into tDPT; req. MS Word	Gerard Dybel
	36.613-031	Infectious Disease (5/19-8/15)	➤ Online Course		3	P: One semester of General Microbiology	S. Fessia-Richardson
Mathematics	92.500-011	Discrete Structures	T/Th	3:15-6:15 pm	3		Alan Doerr
	92.509-011*	Probability, Statistics and Random Processes (5/19-7/22)	T/Th	6:00-8:00 pm	3	P: Calculus and Linear Systems or Linear Algebra	Lee Jones
	92.521-011	Algebraic Structures	M/W	6:00-9:00 pm	3	P: Linear Algebra or Discrete	Kenneth Levasseur
	92.535-011	History of Mathematics	T/Th	6:00-9:00 pm	3	P: Calculus	Joyce Williams
	92.590-021	Statistical Quality Control (5/19-8/15)	Wed	6:00-9:00 pm	3	P: 92.386 or permission of instructor	Shelley Rasmussen
	*Note: The above asterisked course is held from May 19-July 21, with the final exam on July 21.						
Music Education	73.510-021	Foundations of Music Education (5/19-8/15) For additional Summer Music Graduate Education courses, please see Summer Session II.	Tues	5:00-8:00 pm	3		Donna Nagle
Psychology	47.511-011	Helping Skills I	M/W	6:00-9:00 pm	3	P: Open to senior students with instructor permission	Jerry Schwartz
	47.533-011	Mental Health Problems in the Community	T/Th	6:00-9:00 pm	3	P: Open to senior students with instructor permission	Peter Hantzis
	47.536-031	Forensic Psychology (5/19-8/15)	➤ Online Course		3		Alexandria Weida
Regional Economic and Social Development	57.512-011	Community Conflict Resolution	T/Th	6:30-9:30 pm	3		David Turcotte
Work Environment	19.559-011	Conflict Resolution	T/Th	6:30-9:30 pm	3		David Turcotte

Graduate Courses
Summer Session II

Except as noted: Day classes begin on July 7.
M/W Evening Classes begin on July 7 and include 2 FRIDAYS: July 18 and August 1 at the regularly scheduled hours.
T/Th Evening Classes begin on July 8 and include 2 FRIDAYS: July 25 and August 8 at the regularly scheduled hours.

Reminder: It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

	No.	Title	Eve	Time	Cr (Co)	P: Prerequisite C: Corequisite/Comments	Instructor
Business Administration	61.610-021	Financial Markets and Monetary Policy	T/Th	6:00-9:00 pm	3	P: MBA Foundation Core or permission of MBA Director	Michael Carter
	62.601-031	Analysis of Customers and Markets (7/7-8/22)	➤ Online Course		3	P: MBA Foundation Core or permission of MBA Director	Eunsang Yoon
	63.688-031	Managerial Quality Control (7/7-8/15)	➤ Online Course		3	MBA Foundation Core or permission of MBA Dir.	David Lewis
Electrical and Computer Engineering	16.607-021	Electromagnetic Complex Variables	M/W	6:00-9:00 pm	3		Dikshitulu Kalluri
	16.668-021	Advanced Cryptography	M/W	6:00-9:00 pm	3	P: 16.658	Adam Elbirt
Health Professions	34.652-021	Clinical Education Experience II (6/30-8/22)	M-F	8:00 am-4:00 pm	3 (4)	P: Clinical Education Experience I, second-year Physical Therapy graduate students only	Department Faculty
Mathematics	92.527-021	Geometry	M/W	2:00-5:00 pm	3	Course is generally applicable only to the Teacher Option	Marvin Stick
	92.550-021	Mathematical Modeling	T/Th	6:00-9:00 pm	3		James Graham-Eagle
	92.576-021	Statistical Programming Using SAS	T/Th	6:00-9:00 pm	3	P: 92.386 or equivalent	Rebecca Gore
Music Education	73.578-021	Music As A Way of Knowing (7/28-8/1)	M-F	9:00 am-4:00 pm	3		Nick Page
	73.576-021	Finale Workshop (7/31-8/1)	Th/F	9:00 am-4:00 pm	1		Dan Lutz
	73.577-021	Instrumental Music Workshop (8/7-8/8)	Th/F	9:00 am-4:00 pm	1		Debra-Nicole Huber
	73.579-021	World Percussion Ensemble (8/11-8/13)	M/T/W	9:00 am-4:00 pm	1		Dan Foote
	NEW! 73.580-021	Orff Master Class (8/11-8/15)	M-F	8:00 am-4:00 pm	3		R. DeBrot/D. Nagle
	NEW! 73.581-021	The Opera Connection (7/21-7/22)	M/T	9:00 am-4:00 pm	1		Mark Caruso
Psychology	NEW! 73.582-021	Making Music Videos: An Engaging Assessment Tool (8/23-8/25)	W/Th/F	8:00 am-5:00 pm	2		Gena Greher
	47.508-021	The Child in the Community	T/Th	6:00-9:00 pm	3	P: Open to senior students with instructor permission	Doreen Arcus
Regional Econmic and Social Development	57.535-021	Community-Based Planning	M/W	6:00-9:00 pm	3		Brenda Bond

General Information

Office Hours

Advising Center, Southwick Hall 225
Monday-Friday: 8:30 am-5:00 pm

Enrollment Services/Continuing Studies Corporate and Distance Education, Southwick Hall 223
Monday-Thursday: 8:30 am-8:30 pm
Friday: 8:30 am-5:00 pm

Holiday Hours and Special Hours

May 26: Memorial Day (University closed)
June 1: Commencement
July 4: Independence Day (University closed)

The week of June 30 through July 6 (closed July 4), the Office of Enrollment Services/Continuing Studies will be open from 8:30 am-5:00 pm.

The weeks of August 18 through August 29, the Office of Enrollment Services/Continuing Studies will be open from 8:30 am-7:00 pm.

Phone Directory

Bookstore — North Campus(978) 934-2623
Bookstore — South Campus.....(978) 934-6908
Continuing Studies
Main Number.....(978) 934-2480
Continuing Studies
Fax Number.....(978) 934-3087
Continuing Studies
Advising Center(978) 934-2474
Continuing Studies
Enrollment Services.....(978) 934-2480
Graduate School(978) 934-2380
(800) 656-GRAD
College of Education.....(978) 934-4600
Library — North Campus
(Alumni/Lydon).....(978) 934-3205
Library — South Campus
(O'Leary)(978) 934-4550
Phone-In Registration —
Operator-Assisted.....(978) 934-2700
Phone-In Registration —
Automated(978) 934-2050
UMass Lowell Main Number(978) 934-4000
UMass Lowell Directions(978) 934-5800
UMass Online Directions.....www.uml.edu/maps
Weather Cancellations.....(978) 934-2121

See our Website at
<http://continuing.uml.edu>

You can also visit the Graduate School Website
at www.uml.edu/grad/off_campus

Registration Information

See Academic Calendars on page 18 for appropriate registration deadlines.

Mail-In Registration

1. Fill out the registration form and return it postmarked no later than the scheduled deadline.
2. Mail to: University of Massachusetts Lowell Enrollment Services/Continuing Studies, Corporate and Distance Education One University Avenue Lowell, MA 01854-2881
3. Payment must be made with the registration form, either by check, money order, VISA, MasterCard, or Discover. Make checks payable to: University of Massachusetts Lowell.
4. Students will receive class confirmation, room assignment, receipt and ID by mail before the first class meeting.
5. If your class has not been assigned a classroom when you register, please visit our Website at <http://continuing.uml.edu> and click on "NEW! View your schedule and classrooms."

REGISTER EARLY

Get a head start and register early! Although we cannot guarantee an opening in any class, your chances for being enrolled in the course of your choice are better when you register early. Please note that seats in laboratory courses are limited.

Fax-In Registration

Fill out the registration form and fax it to (978) 934-3087 no later than the scheduled deadline. Be sure to include your VISA, MasterCard, or Discover number.

Phone-In Registration with an Operator

1. Payment can be made by VISA, MasterCard, or Discover only.
2. Call (978) 934-2700. Please refer to the Office of Enrollment Services/Continuing Studies hours for phone-in registration times. The registration staff may take only registration information. If you have any questions concerning courses and academic programs, please call (978) 934-2480 or (978) 934-2474 or see our website at continuing.uml.edu.

Automated Phone-In Registration Using the Voice Response System (Credit Courses Only)

Students who are presently enrolled at the University of Massachusetts Lowell, Continuing Studies, Corporate and Distance Education and who have a Continuing Studies PIN# (students registered during Fall and Spring), may now register for summer classes through the touchtone telephone registration system. This system is available during the following times: Monday-Thursday: 6:00 am-11:00 pm; Friday: 6:00 am-9:00 pm. **Note: Students will not receive a written receipt when registering using the Voice Response System.**

To Access the System, Dial (978) 934-2049 or (978) 934-2050.

The Voice Response System will answer the call and ask if you want to access Day School (Option 1) or Evening Division (Option 3). Choose Option 3. You will now be asked for your ID # and, if valid, your Continuing Studies PIN#.

Hold flags will be checked and, if none are found, you will be led through the Registration/Add/Drop process by a series of menus and options.

When you finish selecting your courses, you will be asked to pay by credit card and informed of the amount owed. Registration will be completed upon payment.

If you hang up anytime during the call or do not complete the payment process, all of the ADD transactions will be undone.

If you experience any problems with this system, please report them to Enrollment Services at (978) 934-2588.

Walk-In Registration at the Office of Enrollment Services/Continuing Studies, Southwick Hall, Room 223, North Campus

Please refer to the Office of Enrollment Services/Continuing Studies hours for walk-in registration. Payment must be made at the time of registration. Payment after 4:00 pm must be made by check, money order, VISA, MasterCard, or Discover. Students will receive class confirmation, room assignment, receipt, and ID at the time they register.

General Registration and Open House: Tuesday, May 13 5:00-7:30 pm

We will be holding a special Open House on May 13 from 5:00-7:30 pm in Southwick Hall/Enrollment Services. Program Coordinators and Advisors will be present to answer your questions. Registration will be available. For further information, please call the Advising Center at (978) 934-2474.

Late Registration — See page 18 for late registration dates

Note: There is an additional \$50.00 fee for late registration. No exceptions.

Final Drop/Add Period

See the academic calendar for appropriate drop/add dates. Drop/adds can be processed in the Office of Enrollment Services/Continuing Studies, Southwick Hall, North Campus, Southwick Hall 223.

Last Week to Withdraw with "W" Notation

See the appropriate academic calendar for the last day to withdraw. Students withdrawing from any class must officially notify the Office of Enrollment Services in writing, in person, by fax (978-934-3087) or by mail postmarked no later than the scheduled deadline. Verbal messages to faculty or staff do not constitute official notification.

Identification Card

Students registering in person will receive an ID card during the office walk-in registration and general registration. Students who register by phone or mail will receive their ID by return mail with their letter of confirmation and receipt.

Institutional Disclosure

Institutional Disclosure of Information according to the Higher Education Act is available at www.uml.edu/student-services.

Students with Disabilities

A student with a disability who needs special arrangements should contact Kerry Donohoe at the Advising Center at (978) 934-2465 early in the registration process. Special advising, registration assistance, preferential scheduling, and alternative examination procedures are available. Students must qualify for handicapped parking stickers. Special parking is also available on a temporary basis.

The University's Annual Campus Crime and Safety Report

The University's Annual Campus Crime and Safety Report, which includes campus crime statistics and information about campus alcohol, drug and sexual assault policies as well as other important matters, is available on the Web at <http://www.uml.edu/police>. Paper copies of this report are available upon request at University Police (Ball Hall — 978-934-2384) and at the Office of Student Services (Cumnock Hall — 978-934-2100).

Correct Social Security Number/Tax Identification Number

The University of Massachusetts Lowell must obtain your correct social security number (SSN) to file certain information returns with the IRS as well as to furnish a statement to you. The returns the University must file contain information about qualified tuition and related expenses (Form 1098-T, Tuition Payments Statement). The information about your tuition will help to determine whether you, or the person who can claim you as a dependent, may take the Hope credit or Lifetime Learning credit to reduce the federal income tax.

Bookstore Locations

North Campus — Falmouth First Floor, (978) 934-2623
South Campus — South Campus Dining Hall, (978) 934-6908

Please call the Bookstore to confirm the location of your textbook.

Financial Information

Tuition is priced on the listed credit hour unless the contact hour is different. Tuition is then based on the listed contact hour.

Tuition and Fee Information	Per Credit/Contact Hr.
Undergraduate Tuition	\$215.00
Undergraduate Audit	\$215.00
Undergraduate High Tech and Specialized Courses (Undergraduate courses offered on campus listed under Computer Science, Information Technology and Art/Graphics)	\$220.00
Undergraduate High Tech and Specialized Courses Audit	\$220.00
Undergraduate Off-Campus Courses/Audit*	\$235.00
Undergraduate Online Courses	\$260.00
Undergraduate Online Courses Audit	\$260.00
Graduate Tuition and Audit	\$375.00
Graduate Online Professional Courses and Audit (Engineering, Management and Science)	\$400.00
Graduate School of Education and Clinical Pathology Online Courses and Audit	\$375.00
Graduate Off-Campus Courses and Audit*	\$400.00
Late Registration Fee (non-refundable)	\$50.00

*Note: Some tuitions may vary depending on customization and customer and program requirements.

Students who have checks returned due to insufficient funds will be charged an additional \$30.00 for the processing of the registration.

Overdue Accounts

Students will be permitted to attend class and to utilize facilities only after they have cleared all their financial obligations to the University. In addition, student transcripts and diplomas will not be released until all debts have been paid. Should it be necessary to utilize the services of a collection agency or attorney for an overdue student account, the student will be liable for any and all legal fees, commissions, and associated service charges.

REGISTRATION INFORMATION

Directed Studies

Directed Studies and Practicums are considered Special Programs, and as such, tuition remission and certificates of eligibility cannot be accepted.

NOTE:

Veterans' Information

Veterans must be matriculated in an undergraduate degree program and have all appropriate paperwork on file in the Office of Enrollment Services/Continuing Studies, including a DD214, an Admission Application form, and official transcripts from other colleges in order to receive VA benefits. Waivers for legal Massachusetts residents (residency must be documented) cover 100% cost of tuition, are not retroactive and do not cover registration and other fees. Veterans requesting benefits must check the appropriate line on the registration form. Veterans should use the mail-in or walk-in options when registering and should provide all necessary documentation (no phone-in). For additional information, please see our Website at <http://continuinged.uml.edu> or call Linda Morabito at (978) 934-2461.

Veterans' waivers are available for on-campus courses provided there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. There are no waivers available for distance learning and off-campus courses. Merit and Need-Based Assistance Grants for online courses may be available to veterans who are presently enrolled in degree and certificate programs and who are making satisfactory academic progress towards their degrees or certificates.

International Students

International students registering for classes must hold an F1 Visa and provide proof of Visa status upon registration. Please call (978) 934-2588 if you have any questions.

Third-Party Payment

All students using company direct payment, military plans, state tuition waivers, or veterans' waivers must include the appropriate forms or authorizing letters with their registration, or have them on file. No tuition refund is awarded for late submission of eligibility form. Students receiving company reimbursement must prepay their own tuition. For additional information, call (978) 934-2479.

NOTE:

Senior Citizens

Senior citizens (60 years or older) who are Massachusetts residents may attend classes in Continuing Studies credit programs tuition-free provided that there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. Please note that waivers are not retroactive and do not cover fees. Proof of Massachusetts residency and birth date must be provided annually at the time of registration. There are no waivers available for distance learning and off-campus courses. Merit and Assistance Grants are available for veterans and seniors taking online courses who are presently enrolled in Degree and Certificate Programs and are making satisfactory academic progress towards their degrees or certificates.

Tuition Refund Policy for Credit Courses

Any eligibility for tuition refund is based on the academic calendar, not class attendance, and is pro-rated as follows, excluding fees:

Summer I and Courses spanning Summer I and II

Withdrawal on or before May 9	100%
Withdrawal from May 10 to before the first class meeting	90%
Before the second class meeting	80%
Before the third class meeting	40%
After third class meeting	No refund

Summer II

Withdrawal on or before June 27	100%
Withdrawal from June 28 to before the first class meeting	90%
Before the second class meeting	80%
Before the third class meeting	40%
After third class meeting	No refund

Tuition Refund Policy for Online Courses (Graduate and Undergraduate)

Withdrawal on or before May 9	100%
Withdrawal from May 10 to May 16	90%
Withdrawal from May 17 to May 23	80%
Withdrawal from May 24 to May 27	40%
Withdrawal after May 27	No refund

Fees will be refunded if Continuing Studies is responsible for cancellations. The refund process normally requires at least a period of four to six weeks from the beginning of the semester.

Students withdrawing from any class must officially notify the Office of Enrollment Services/Continuing Studies on forms provided by the Office. Verbal messages to faculty or staff do not constitute official notification.

Tuition Refund Policy for Students Receiving Title IV Financial Aid and Who Are Enrolled in a Degree or Specifically Designated Certificate Program

Refunds for Title IV financial aid recipients will be processed according to Federal guidelines and institutional policy. Please call the Financial Aid Office at (978) 934-4220 if you have any questions.

Student Health Insurance (Graduate and Undergraduate)

Every student who is enrolled in at least 9 semester hours or more in a degree program is required by Massachusetts state legislation to participate in a qualifying student health insurance program. The cost of this insurance is \$426 from January 1 until August 14. Payment of the appropriate fee will be required at registration. To waive participation in this program, students must fill out a form at

registration showing equivalent coverage. The name of your insurance company and your policy number are required information on the waiver form.

NEW! International Students

All International students are required to be enrolled in the University Student Health Insurance Plan. This requirement is authorized under the insurance laws for higher education students in Massachusetts (Section 275 of Chapter 151 of the Acts of 1996). The only exception to this requirement will be for International students covered through an embassy plan. Students so insured will be permitted to waive the school plan, providing they submit official documentation that confirms they have such coverage and that this coverage meets the state requirements. Documentation of student status must be provided. Please call Maureen Secchiaroli at 978-934-2489.

Financial Aid

For information regarding Financial Aid, please contact Thu-Ha Pham in the Financial Aid Office at 978-934-4222.

Academic Calendar & Registration Information



May 19–June 27 Summer Session I

Day classes begin on Monday, May 19.

M/W Evening classes begin on Monday, May 19 and include 3 FRIDAYS: May 30, June 13, and June 27 at the regularly scheduled hours.

T/Th Evening classes begin on Tuesday, May 20 and include 2 FRIDAYS: June 6 and June 20 at the regularly scheduled hours.

Online classes begin Monday, May 19.

We encourage you to mail-in, phone-in, or fax your registration.

May 26: Memorial Day observed

Mail-In Registration: April 7 to May 14
Phone-In Registration: April 7 to May 14
Fax-In Registration: April 7 to May 14
Walk-In Registration: April 7 to May 14

General Registration and Open House:
Tuesday, May 13

Late Registration: Begins Thursday, May 15
There is an additional \$50.00 fee for late registration.

Last Day to Add a Lab

Day Classes: May 20

Last Day for Partial Refund

(Before the 3rd class meeting)
Day Classes: May 21
M/W Evening Classes: May 28
T/Th Evening Classes: May 27
Online Classes: Through May 27

Last Day to Add Course

Day Classes: May 21 without permission;
May 22 with instructor permission
M/W Evening Classes: May 21 without permission;
May 28 with instructor permission
T/Th Evening Classes: May 22 without permission;
May 27 with permission
Online Classes: Through May 27

Last Day to Drop Course

Day Classes: May 22
M/W Evening Classes: May 28
T/Th Evening Classes: May 27
Online Classes: Through May 27

Last Day to Withdraw with "W" Notation

Day Classes: June 5 for 3-credit courses,
June 6 for 4-credit courses
M/W Evening Classes: June 16
(Before the 10th class meeting)
T/Th Evening Classes: June 17
(Before the 10th class meeting)
Online Classes: Through July 11

Final Examinations

Day Classes: June 25 for 3-credit courses,
June 26 for 4-credit courses
M/W Evening Classes: Friday, June 27
T/Th Evening Classes: Thursday, June 26

NOTE: M/W evening courses meet twice a week plus 3 Fridays: May 30, June 13, and June 27. T/Th evening courses meet twice a week plus 2 Fridays: June 6 and June 20.

July 7–August 15 Summer Session II

Day Classes begin on July 7.

M/W Evening classes begin on July 7 and include 2 FRIDAYS: July 18 and August 1 at the regularly scheduled hours.

T/Th Evening classes begin on July 8 and include 2 FRIDAYS: July 25 and August 8 at the regularly scheduled hours.

We encourage you to mail-in, phone-in, or fax your registration to guarantee the class of your choice and the receipt of your classroom confirmation.

July 4: Independence Day observed

Mail-In Registration: April 7 to July 1
Phone-In Registration: April 7 to July 1
Fax-In Registration: April 7 to July 1
Walk-In Registration: April 7 to July 1

Late Registration: Begins July 2
There is an additional non-refundable \$50.00 fee for late registration.

Last Day to Add a Lab

Day Classes: July 8

Last Day for Partial Refund

(Before the 3rd class meeting)
Day Classes: July 9
M/W Evening Classes: July 14
T/Th Evening Classes: July 15

Last Day to Add Course

Day Classes: July 9 without permission;
July 10 with instructor permission
M/W Evening Classes: July 9 without permission;
July 14 with instructor permission
T/Th Evening Classes: July 10 without permission;
July 15 with permission

Last Day to Drop Course

Day Classes: July 10
M/W Evening Classes: July 14
T/Th Evening Classes: July 15

Last Day to Withdraw with "W" Notation

Day Classes: July 30 for 3-credit courses,
July 24 for 4-credit courses
M/W Evening Classes: August 1
(Before the 10th class meeting)
T/Th Evening Classes: August 5
(Before the 10th class meeting)
Online Classes: Through July 11

Final Examinations

Day Classes: August 12 for 3-credit courses,
August 13 for 4-credit courses
M/W Evening Classes: Wednesday, August 13
T/Th Evening Classes: Thursday, August 14

Note: M/W evening courses meet twice a week plus 2 Fridays: July 18 and August 1. T/Th evening courses meet twice a week plus 2 Fridays: July 25 and August 8.

Academic Information



The University of Massachusetts Lowell is accredited by the New England Association of Schools and Colleges, which accredits schools and colleges in the six New England states. Membership in the Association indicates that the institution has been evaluated carefully and meets the standards agreed upon by qualified educators. The programs in Civil Engineering Technology, Electronic Engineering Technology, and Mechanical Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. The Bachelor of Science in Business Administration (BSBA) is accredited by the AACSB — The International Association for Management Education.

Catalog

Students should refer to the Continuing Studies, Corporate and Distance Education catalog for rules, regulations, program outlines, and course descriptions. The catalog is available in the Advising Center and the Office of Enrollment Services/Continuing Studies and at <http://continuinged.uml.edu>.

Admission into a Certificate or Degree Program

Students who have graduated from high school or who have earned a high school equivalency certificate are invited to apply for programs leading to a Certificate or an Associate's or Bachelor's degree. Applications for all programs are accepted on a rolling admissions basis. Contact the Continuing Studies, Corporate and Distance Education/Advising Center at (978) 934-2474 (certificate and degree programs) for an application and information on the application procedure. There is no fee to apply.

For a listing of our degree and certificate programs, please see page 5.

A student enrolled in any of our degree or certificate programs should schedule an appointment with the appropriate program advisor to help plan a schedule for degree or certificate completion.

Admission into a Graduate Certificate or Degree Program

Students interested in applying into Graduate degree or certificate programs should contact the Graduate School at (800) 656-GRAD or www.uml.edu/grad. Students with Bachelor's degrees from accredited institutions are eligible to enroll as non-degree students for a total of 12 credits prior to matriculating into formal Graduate degree programs. Students must formally apply to Graduate certificate programs before enrolling in Graduate courses intended for specific certificate programs.

Undergraduate Degree Completion

Students who expect to complete their degree requirements in the 2002-2003 academic year must arrange for a graduation interview at the Advising Center (978-934-2474). Students who anticipate graduating at the end of the Spring semester must complete the interview process by March 28. Students who anticipate graduating at the end of the Summer sessions must complete the interview process by June 27. A fee of \$75.00 is required of graduating students. Commencement will be held on June 1, 2003.

Undergraduate Certificate Completion

When a student completes the necessary courses for a certificate program, the student should complete and submit a Certificate Award Petition to Continuing Studies/ Advising Center.

Course Grades

Grade reports for the Summer sessions will be mailed to students approximately two weeks after exams end. Students who have received their PIN# can also call the Voice Response System at (978) 934-2049 or (978) 934-2050 to receive their Summer grades, which will be available as soon as they are posted.

Advising Information



Advising Center Students are welcome to drop by the Advising Center, located in Southwick Hall, Room 225, from 8:30 am to 5:00 pm for general advising, information on Associate's and Bachelor's degrees and certificate programs, and/or to obtain catalogs and brochures. Call (978) 934-2474 for information or email at Continuing_Education@uml.edu. For questions on Graduate programs, call the Graduate School at (978) 934-2380 or (800) 656-GRAD or see the website at www.uml.edu/grad.

Appointments with Program Coordinators and General Advisors

In addition to the general advising conducted at the Advising Center, appointments with General Advisors and Program Coordinators also can be scheduled. Evening supervisors are also available in Enrollment Services, Southwick Hall, Room 223, from 5:00-8:00 pm to answer questions and conduct status reviews. Students are encouraged to call the Advising Center at (978) 934-2474 to schedule an appointment.

Evening Supervisors

Professor Alan Doerr
Professor Bernard Shapiro

Faculty Advisors

Accounting and Management: Charles Thompson, Associate Professor
Applied Mathematics: Alan Doerr, Professor
Biology, Chemistry, Environmental Science, Physics: Paul Damour, Associate Professor
Civil Engineering Technology: Mark Laquidara, Assistant Professor
Computer Mathematics, Information Technology: Ann Marie Hurley, Professor
Criminal Justice Liberal Arts, Paralegal Studies: Joseph Lipchitz, Professor
Electronic Engineering Technology: Fahd Wakim, Professor
Electronic Engineering Technology: Amanda Davis, Assistant Professor
Mechanical Engineering Technology: Robert Tuholski, Professor, Department Head
Mechanical Engineering Technology: Glenn Sundberg, Assistant Professor
Plastics Engineering Technology and Plastics Engineering Technology with Packaging Option: Stephen Driscoll, Professor

General Advisors

Ms. Joyce Brill: Information Technology
Ms. Kerry Donohoe: Degree and Certificate Programs
Ms. Claire Murphy: Bachelor of Liberal Arts, Criminal Justice
Ms. Susan Wartman: Degree and Certificate Programs
Ms. Brenda Woonton: Degree and Certificate Programs

We are no longer accepting applications for the following degree and certificate programs:

Associate's Degrees:

Accounting
Applied Chemistry
Applied Mathematics
Applied Mathematics: Computer Mathematics Option
Banking
Criminal Justice

Bachelor's Degrees

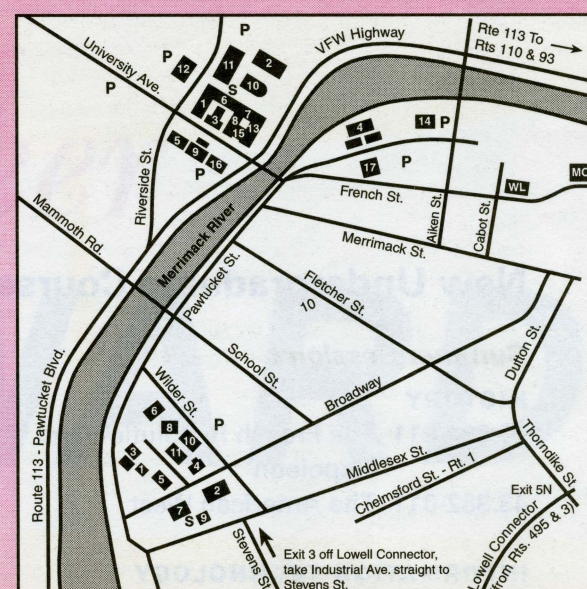
Applied Chemistry

Certificate Programs:

Banking
Engineering Skills
International Trade
Internet System Administration
Novell Option of Data Telecommunications
Purchasing
Quality Assurance
Security Management
Windows Programming

A student enrolled in any of these programs should schedule an appointment with the appropriate program advisor to help plan a schedule for degree or certificate completion.

Campus Information



North	South
1 BL Ball Engineering Ctr.	1 Allen Hall
2 Costello Gym	2 CO Coburn
3 Cumnock Hall	3 Concordia Hall
4 Dormitories	4 Dining Hall
5 Eames Hall	5 DU Dugan Hall
6 EB Engineering	6 DR Durgin Hall
7 FA Falmouth	7 MA Mahoney Hall
8 KI Kitson	8 OL O'Leary Library
9 LL Alumni/Lydon Library	9 Power Plant
10 EC Pinanski	10 SU Student Union
11 OH Olney	11 WE Weed Hall
12 OS Olsen	P Parking
13 PA Pasteur	S Security
14 Research Foundation	
15 SO Southwick Hall	
16 Smith Hall	
17 Fox Student Union	
P Parking	
S Security	

Directions

For UMass Lowell directions, call (978) 934-5800.
For UMass Lowell online directions, go to www.uml.edu/maps

Parking

New parking stickers are required for all Continuing Studies students. These stickers are available at the University Police Parking Bureau and in Enrollment Services, Southwick Hall 223. Call the Parking Bureau at (978) 934-4211 for hours of operation. Please check Continuing Studies office hours for availability.

This sticker entitles students to park after 5:30 pm in any University parking lot except Cumnock Hall. Students are encouraged to park in the numerous parking lots on the North and South campus. **Students and faculty should not compromise public safety by blocking access of fire lanes, ambulance and other emergency vehicles.** Students and faculty should not park in handicap spaces unless they display a handicap sticker. Student and faculty cars will be towed and/or ticketed for violations. In addition, the Lowell Police will tow student and faculty cars if cars are parked in "Residential Parking" areas. Remember to bring your car registration and a photo ID when you come in to get a parking sticker.

Please call the Advising Center at (978) 934-2474 for the locations of parking lots available for use by Continuing Studies students who visit the campus during the day.

Locating Your Classroom

Upon registration, students are issued a confirmation printout, which includes the two-letter building code along with the room number. Refer to the map and building key above to locate where your class will be held. For assistance, call the Advising Center at (978) 934-2474. If your class has not been assigned a classroom when you register, please visit our Website at <http://continuinged.uml.edu> and click on "New! View your schedule and classrooms."

University Escort Service

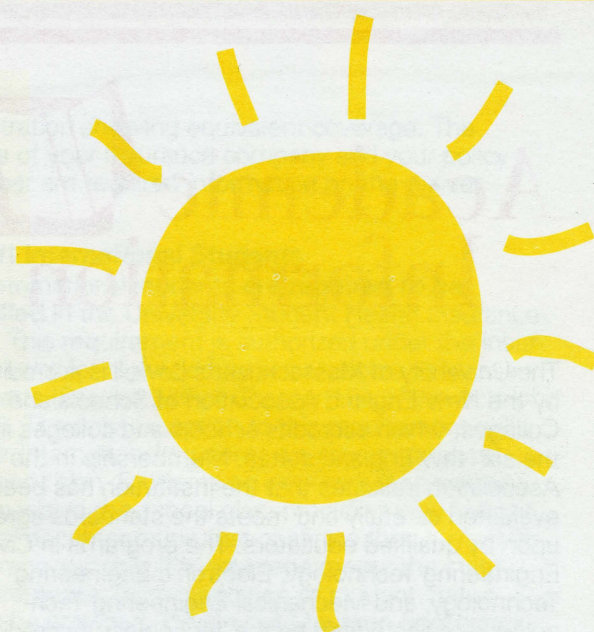
The University now operates a motorized escort service seven nights a week from 6:00 pm to 1:00 am. Call Ext. 2222 for a ride anywhere on campus — from the parking lots, to the library, the residence hall, or the gym. It is a service designed for the entire University community day and evening students, staff, and faculty.

This newspaper is printed at no cost to the Commonwealth of Massachusetts. The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action University and does not discriminate in employment or access to programs or services on the basis of race, sex, sexual orientation, color, national origin, religion, handicap, or veteran's status and is in compliance with Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act, 1990. Any inquiries and/or grievances may be referred to the Affirmative Action Officer, the Title IX Coordinator, the Disabilities Coordinator and/or to the Director, Office for Civil Rights, U.S. Department of Health and Human Services, Washington, D.C.

Every effort has been made to ensure the accuracy of the information presented in this bulletin. However, Continuing Studies, Corporate and Distance Education reserves the right to implement new rules and regulations and to make changes of any nature in its program, calendar, procedures and standards, degree requirements, and academic schedules (including, without limitations, changes in course content and class schedules), locations, tuition, and fees. Whenever possible, appropriate notice of such changes will be given before they become effective. When changes are necessary, Continuing Studies exerts reasonable efforts to provide comparable or substantially equivalent instructional services and facilities for those originally designated. However, C.S.C.E. assumes no liability for failure to deliver or for delay in delivering such services (including those in support of academic functions or student life) when the causes for such failure or delay are beyond the reasonable control of Continuing Studies - which causes include, without limitation, the following: power failure, fire, accident, natural disaster, work slowdown and strikes, loss of personnel, and acts of public authorities.

In registering for courses, each student assumes full responsibility for knowledge of and compliance with the definitions, regulations, and procedures for the University as set forth in the appropriate publications and bulletins.

What's new What's hot this summer



New Undergraduate Courses

Summer Session I

HISTORY

- 43.334-011 The French Revolution and Napoleon
43.382-011 The American West

INFORMATION TECHNOLOGY

- 90.271-011 C# (C Sharp) Programming
90.320-031 Shell Scripting Using Linux — *Now Online!*
90.483-011 Wireless Communications
90.484-011 Optical Networking SONET/SDH
90.486-011 Multiprotocol Label Switching (MPLS)

MATHEMATICS

- 92.488-021 Statistical Quality Control

See New Non-Credit Seminars in Management on page 11.

Summer Session II

INFORMATION TECHNOLOGY/MUSIC

- 78.201-021 Intro. to Audio for Multimedia and the Web - Featuring Sound Forge® 6.0/Windows

MATHEMATICS

- 92.486-021 Statistical Programming Using SAS

MUSIC

- 71.204-021 Aural Skills 4

New Graduate Courses

New Graduate Online Courses

Offered May 19-August 15, 2003

- 32.604-031 Health Data Analysis — *Now Online!*
34.702-031 Clinical Reasoning in Physical Therapy — **NEW!**
44.526-031 Hate Crimes — *Now Online!*
44.543-031 Forensic Psychology — *Now Online!*
44.563-031 Substance Abuse and the Criminal Justice System — *Now Online!*
44.622-031 Family Violence — *Now Online!*
47.536-031 Forensic Psychology — *Now Online!*
62.601-031 Analysis of Customers and Markets — *Now Online!*

New Graduate Music Education Courses

Offered in Summer Session II

- 73.580 Orff Master Class (8/11-8/15)
73.581 The Opera Connection (7/21-7/22)
73.582 Making Music Videos: An Engaging Assessment Tool (8/23-8/25)



Sign Up Now for Summer Courses at UMass Lowell and Qualify for a Reduced Summer Fitness Membership!

- Just \$75 to use UMass Lowell's New Student Recreation Center this Summer!
- Proof of summer course registration will be required for membership.
- Summer Memberships will run from Monday, May 19 through Saturday, August 30, 2003.

Visit UMass Lowell's Recreation Center Website at www.uml.edu/campusrecreation or call (978) 934-2348 for more information.

Summer Fitness Membership Cards Will Go on Sale Starting the Week of May 12th!

REGISTRATION FORM FOR CREDIT/NONCREDIT COURSES

Note: Please remember to fill in your work, home phone numbers and email address. This will allow us to reach you in case of class cancellations.

University of Massachusetts Lowell

Continuing Studies and Corporate Education (978) 934-2480
One University Avenue, Lowell, MA 01854

PLEASE USE INK AND PRINT

CHECK APPROPRIATE REGISTRATION STATUS:

- ☐ Summer I (May 19-June 27) ☐ Summer II (July 7-August 15)
☐ Graduate ☐ Non-Credit

Social Security No. _____ Tax ID No. _____

Name _____

Street & No. _____

City & State _____ Zip Code _____

Date _____

Sex ☐ M ☐ F Date of Birth _____

Work Phone _____

Home Phone _____

Email _____

Company Name _____

Street Address _____

City & State _____

Change of name or address since last registration? ☐ yes ☐ no

Former name _____

Will you be using veteran benefits? ☐ yes ☐ no

State/Active Duty _____ G.I. Bill _____

COURSES FOR WHICH YOU ARE REGISTERING											
Course Number						Course Title				Credits/Non-Credit	
						SUMMER I					
						SUMMER II					

COMPLETE IF PAYING BY CREDIT CARD

☐ MasterCard ☐ VISA ☐ Discover Account Number _____
Expiration Date _____ Customer Signature _____

Tuition and Fees

Tuition

Late Fee

(Save \$50 Late Fee - Register Early)

Total \$.